

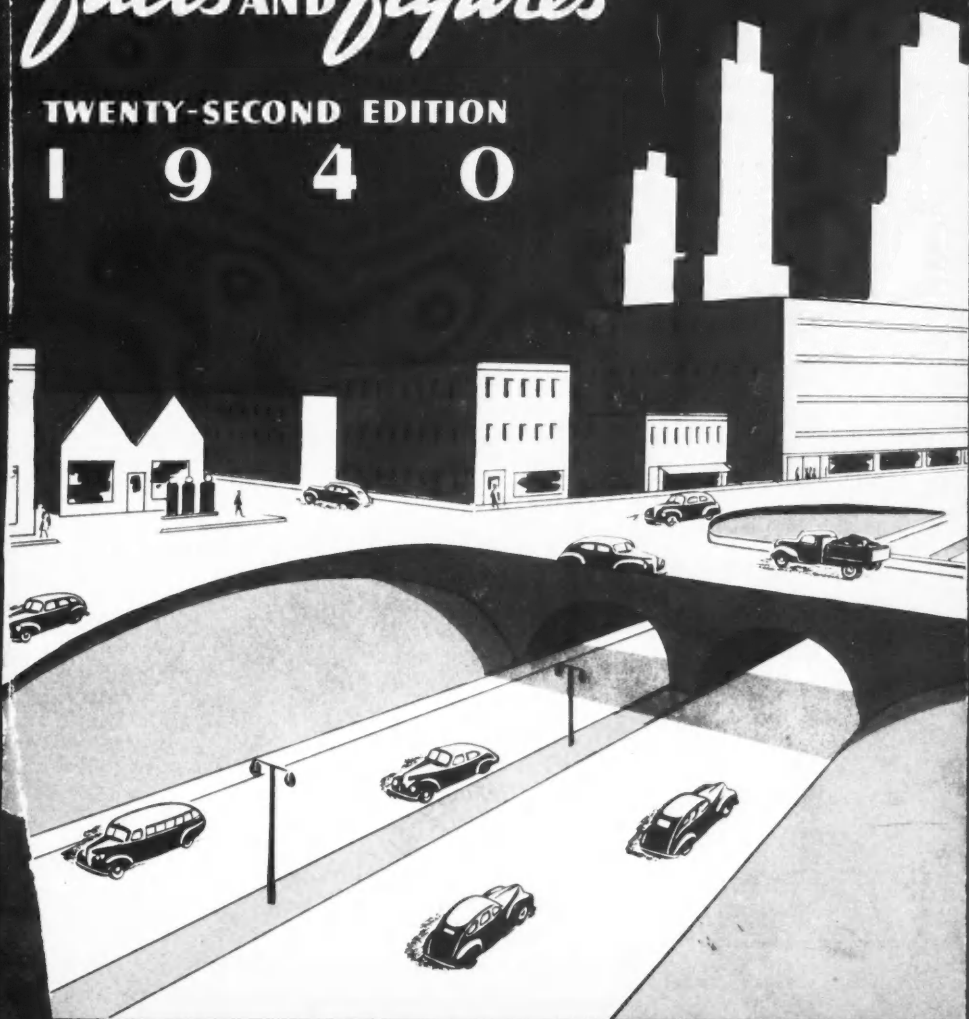
R62D.101 A92

# AUTOMOBILE

## *facts AND figures*

TWENTY-SECOND EDITION

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AUTOMOBILE MANUFACTURERS ASSOCIATION

WASHINGTON  
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LE MANUFACTURERS ASSOCIATION





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## FACTS and FIGURES

contains new perspective on the motor transport of the United States, emerging from the state-wide Highway Planning Surveys. This edition

contains not only considerable new data on highway use but a detailed inventory of the street and road systems of the country, presented in figures and maps from the U. S. Public Roads Administration.

New findings of the Federal Coordinator of Transportation on highway costs and on payments made by motor vehicle users are summarized.

Included also are data from public and other authoritative sources on:

Urban family expenditures for automobile transportation,

Production required to supply automobile replacement demand,

Employment created by manufacturing, sales, servicing and operation of motor vehicles.

The year 1939 saw new automotive records—

Use and registration of passenger cars, trucks and buses reached new highs. Motor taxes likewise set a high mark, exceeding \$1,636,549,000, a sum representing about one out of each nine tax dollars collected by all taxing agencies.

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## AUTOMOBILE MANUFACTURERS ASSOCIATION

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(A list of members and committees is given on pages 87-91)

# HIGHLIGHTS

## HIGHWAYS

Expenditures (29 states): Primary roads 50.5%, secondary 35.5%, streets 14% (p. 52)

Motor vehicle users pay \$385,360,000 more than share of road costs, 1921 to 1937 (p. 48)

86% of primary and secondary state highways surfaced (p. 46)

## REGISTRATION AND USE

Average of 2,388,000 new motor vehicles required annually (1930-39) to maintain U. S. rolling stock (p. 7)

41% of motor vehicles on farms and in villages under 2,500 population (p. 14)

55% of motor vehicle mileage for business purposes (p. 71)

## EMPLOYMENT

Motor transport employs 6,500,000—one-seventh of all U. S. workers (p. 36)

## TAXES

1939 motor vehicle owner taxes reach new high of \$1,636,549,000, one out of every nine tax dollars from all sources (p. 67)

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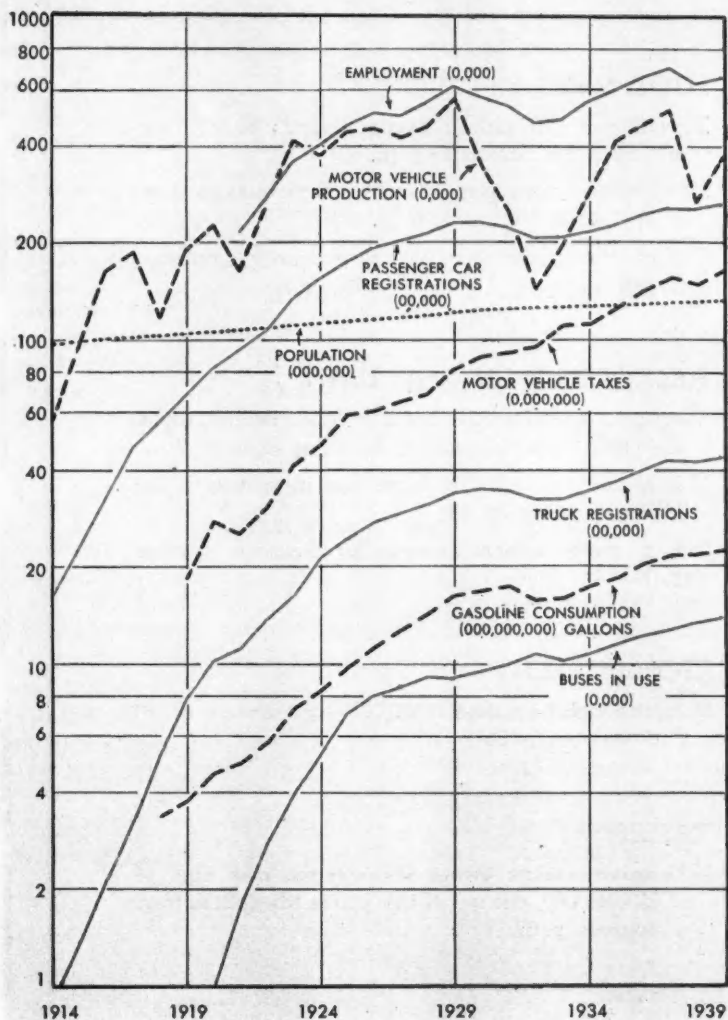
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# New Records Set in Motor Industry in 1939







# 79 Million Motor Vehicles Produced in 40 Years

## Factory Sales and Wholesale Value, U.S. and Canada

PASSENGER CARS			MOTOR TRUCKS		TOTAL	
	Number	Value	Number†	Value‡	Number	Value
1900...	4,192	\$4,899,443	.....	.....	4,192	\$4,899,443
1901...	7,000	8,183,000	.....	.....	7,000	8,183,000
1902...	9,000	10,395,000	.....	.....	9,000	10,395,000
1903...	11,235	13,000,000	.....	.....	11,235	13,000,000
1904...	22,130	23,357,692	700	1,272,747	22,830	24,630,439
1905...	24,250	38,670,000	750	1,330,000	25,000	40,000,000
1906...	33,200	61,460,000	800	1,440,000	34,000	62,900,000
1907...	43,000	91,620,000	1,000	1,780,000	44,000	93,400,000
1908...	63,500	135,250,000	1,500	2,550,000	65,000	137,800,000
1909...	123,990	159,765,721	3,297	5,333,683	127,287	165,099,404
1910...	181,000	215,340,000	6,000	9,660,000	187,000	225,000,000
1911...	199,319	225,000,000	10,681	21,000,000	210,000	246,000,000
1912...	356,000	335,000,000	22,000	43,000,000	378,000	378,000,000
1913...	461,500	399,902,000	23,500	44,000,000	485,000	443,902,000
1914...	548,139	420,838,378	24,900	44,219,096	573,039	465,057,474
1915...	895,930	575,978,000	74,000	125,800,000	969,930	701,778,000
1916...	1,525,578	921,378,000	92,130	161,000,000	1,617,708	1,082,378,000
1917...	1,745,792	1,053,905,781	128,157	220,982,668	1,873,949	1,274,488,449
1918...	943,436	801,937,925	227,250	434,168,992	1,170,686	1,236,106,917
1919...	1,651,625	1,365,395,415	224,731	371,422,820	1,876,356	1,736,818,235
1920...	1,905,860	1,809,170,963	321,789	423,249,410	2,227,349	2,232,420,373
1921†...	1,529,165	1,091,752,452	153,200	169,914,098	1,682,365	1,261,666,550
1922...	2,367,023	1,561,740,645	278,160	231,282,063	2,645,183	1,793,022,708
1923...	3,752,693	2,274,954,488	428,521	317,478,940	4,181,214	2,592,033,428
1924...	3,300,418	2,040,706,519	434,702	326,706,496	3,735,120	2,367,413,015
1925...	3,870,744	2,544,528,799	557,056	470,634,763	4,427,800	3,015,163,562
1926...	3,950,874	2,746,064,722	554,787	468,752,769	4,505,661	3,214,817,491
1927...	3,082,954	2,265,633,102	497,426	435,072,641	3,580,380	2,700,705,743
1928...	4,013,265	2,703,753,500	587,548	459,045,380	4,600,813	3,162,798,880
1929...	4,790,707	2,981,141,842	830,338	595,504,039	5,621,045	3,576,645,881
1930...	2,906,082	1,720,652,104	603,276	405,949,915	3,509,358	2,126,602,019
1931...	2,038,162	1,153,907,947	434,135	272,748,305	2,472,297	1,426,656,252
1932...	1,186,185	650,781,297	245,282	142,264,003	1,431,467	793,045,300
1933...	1,627,361	795,304,780	358,548	192,131,509	1,985,909	987,436,289
1934...	2,270,566	1,204,376,351	599,397	332,913,985	2,869,963	1,537,290,336
1935...	3,387,806	1,788,635,180	732,005	399,211,522	4,119,811	2,187,846,702
1936*	3,797,897	2,092,460,475	818,377	481,961,420	4,616,274	2,574,421,895
1937*	4,068,935	2,397,717,534	947,502	573,310,107	5,016,437	2,971,027,641
1938*	2,124,746	1,351,426,737	530,425	365,723,677	2,655,171	1,690,250,414
1939*	2,975,165	1,887,536,118	757,553	530,494,488	3,732,718	2,418,030,606

Foreign assemblies of parts made in U. S. but assembled abroad are included in this table.

†Figures for 1921 to date are "factory sales" for U. S. plants and "production" for Canadian plants. See page 8 for Canadian production and wholesale value.

‡A substantial part of the trucks reported comprises chassis only, without body; hence the value of bodies for these chassis is not included.

\*Includes federal excise taxes, also standard equipment in 1937, 1938 and 1939.

## Annual Percentage Change in Factory Sales

Year	Pasenger Cars	Motor Trucks	Total	Year	Pasenger Cars	Motor Trucks	Total
1934...	39.5%	67.2%	44.5%	1937...	7.1%	15.8%	8.7%
1935...	49.1%	22.2%	43.6%	1938...	-47.7%	-44.0%	-47.2%
1936...	12.1%	11.8%	12.1%	1939...	40.0%	42.8%	40.6%

(-) means decrease; no sign in front of figures means increase.

# Motor Vehicle Factory Sales—By Months

## United States and Canada

(Figures from U. S. Census Bureau,\* and Dominion Bureau of Statistics)

Passenger Car Factory Sales							
Year	1933	1934	1935	1936	1937	1938	1939
Jan...	112,754	117,700	235,806	308,589	324,191	168,890	292,869
Feb...	93,153	193,875	287,142	234,872	310,961	151,133	253,914
Mar...	103,396	291,546	377,374	357,068	423,006	186,341	312,392
April...	156,712	303,806	407,721	436,576	452,907	190,111	286,200
May...	188,675	290,268	322,485	401,139	443,412	168,599	249,455
June...	213,602	272,090	306,300	388,183	429,333	147,545	257,289
July...	196,587	231,501	283,715	379,823	372,913	112,114	155,890
Aug...	196,333	190,825	186,133	212,140	317,270	61,687	62,475
Sept...	161,734	129,251	59,499	92,324	120,597	69,449	165,119
Oct...	107,593	86,128	220,113	194,690	306,040	192,906	259,610
Nov...	43,868	50,072	347,830	351,171	309,121	335,767	295,134
Dec...	52,954	113,504	353,688	441,322	259,184	340,204	384,858
Total	1,627,361	2,270,566	3,387,806	3,797,897	4,068,935	2,124,746	2,975,165

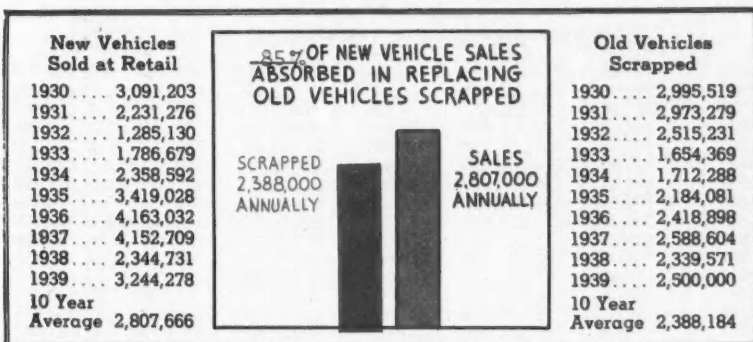
Motor Truck Factory Sales							
Year	1933	1934	1935	1936	1937	1938	1939
Jan...	19,429	44,870	64,529	68,655	74,995	58,062	64,093
Feb...	15,592	44,952	63,204	65,938	72,939	51,464	63,606
Mar...	18,508	61,068	70,520	81,875	96,016	52,106	77,107
April...	27,975	67,532	69,338	91,049	100,324	47,818	68,066
May...	35,132	60,348	59,324	79,379	96,965	41,575	63,793
June...	43,448	48,292	65,785	81,185	91,820	41,857	66,964
July...	39,310	44,546	61,582	71,383	83,996	38,336	62,750
Aug...	42,601	53,890	58,942	63,794	87,802	35,259	40,868
Sept...	35,874	46,335	33,229	47,496	55,033	20,174	27,560
Oct...	30,772	49,643	60,203	35,359	31,939	22,380	65,079
Nov...	19,106	35,107	60,720	54,628	67,508	54,638	73,407
Dec...	30,801	42,814	64,629	77,636	88,165	66,756	84,260
Total	358,548	599,397	732,005	818,377	947,502	530,425	757,553

Passenger Car and Truck Factory Sales							
Year	1933	1934	1935	1936	1937	1938	1939
Jan...	132,183	162,570	300,335	377,244	399,186	226,952	356,962
Feb...	108,745	238,827	350,346	300,810	383,900	202,597	317,520
Mar...	121,904	352,614	447,894	438,943	519,022	238,447	389,499
April...	184,687	371,338	477,059	527,625	553,231	237,929	354,266
May...	223,807	350,616	381,809	480,518	540,377	210,174	313,248
June...	257,050	320,382	372,085	469,368	521,153	189,402	324,253
July...	235,897	276,047	345,297	451,206	456,909	150,450	218,600
Aug...	238,934	244,715	245,075	275,934	405,072	96,946	103,343
Sept...	197,608	175,586	92,728	139,820	175,630	89,623	192,679
Oct...	138,365	135,771	280,316	230,049	337,959	215,286	324,689
Nov...	62,974	85,179	408,550	405,799	376,629	390,405	368,541
Dec...	83,755	156,318	418,317	518,958	347,349	406,960	469,118
Total	1,985,909	2,869,963	4,119,811	4,616,274	5,016,437	2,655,171	3,732,718

\*Includes overseas assemblies of motor vehicles of American make.



# U.S. Replacements Alone Average 2,388,000 Vehicles Yearly



## Automobile Markets

(Figures include all motor vehicles)

Year	FOREIGN MARKET				DOMESTIC MARKET		
	Factory Sales U. S. and Canada	Canadian Output	U. S. Exports	Total Foreign	New Owners and Others*	Replacements†	Total Domestic
1921 .....	1,682,365	66,246	63,619	129,865	1,069,771	482,829	1,552,500
1922 .....	2,646,229	101,007	130,899	231,906	1,619,367	794,956	2,414,323
1923 .....	4,180,450	147,202	235,183	382,385	2,920,922	877,143	3,798,065
1924 .....	3,737,786	132,580	293,149	425,729	2,160,676	1,151,381	3,312,057
1925 .....	4,427,800	161,970	428,687	590,657	2,166,806	1,670,337	3,837,143
1926 .....	4,505,661	204,727	393,444	598,171	2,083,260	1,824,230	3,907,490
1927 .....	3,580,380	179,054	469,468	648,522	821,644	2,110,214	2,931,858
1928 .....	4,601,141	242,054	582,764	824,818	1,259,455	2,516,868	3,776,323
1929 .....	5,621,715	262,625	734,211	996,836	1,792,978	2,831,901	4,624,879
1930 .....	3,510,178	153,372	405,715	559,087	0	2,951,091	2,951,091
1931 .....	2,472,359	82,559	241,557	324,116	0	2,148,243	2,148,243
1932 .....	1,431,467	60,789	120,239	181,028	0	1,250,439	1,250,439
1933 .....	1,985,909	65,852	176,583	242,435	89,105	1,654,369	1,743,474
1934 .....	2,869,963	116,852	310,522	427,374	730,301	1,712,288	2,442,589
1935 .....	4,119,811	172,877	334,841	507,718	1,428,012	2,184,081	3,612,093
1936 .....	4,616,274	162,159	346,067	508,226	1,689,150	2,418,898	4,108,048
1937 .....	5,016,437	207,463	475,914	683,377	1,744,456	2,588,604	4,333,060
1938 .....	2,655,171	166,086	325,940	492,026	0	2,163,145	2,163,145
1939 .....	3,732,718	155,426	316,138	471,564	701,175	2,559,979	3,261,154

\*Number of new motor vehicles sold in excess of number of old vehicles estimated as having been (a) scrapped or (b) kept without being re-registered.

† Represents old vehicles estimated as having been scrapped or unregistered. The estimate of replacements was made by (1) adding retail sales of new vehicles during a year to the total registrations at the end of the preceding year; (2) subtracting total registrations at the end of the current year; (3) adding half this difference, obtained in (2), and half the corresponding difference resulting from a similar computation for the preceding year, which gives the estimated total scrapped or unregistered in the preceding year; (4) all scrapped or unregistered old vehicles during the year are assumed to be equivalent to the replacement market for new vehicles. In years 1930 to 1932, and 1938, computed cars scrapped or unregistered exceeded number of new cars sold in the domestic market, hence replacements are assumed to have absorbed all sales in the domestic market.

# Canadian 1939 Output 155,426 Motor Vehicles

(Figures from Annual Report of Dominion Bureau of Statistics, Ottawa, Canada)

## Number and Wholesale Value of Canadian Production

Year	PASSENGER CARS		TRUCKS		TOTAL	
	Number	Value	Number	Value	Number	Value
1921...	61,098	\$53,561,415	5,148	\$3,843,288	66,246	\$57,404,703
1922...	92,838	67,226,654	8,169	5,232,405	101,007	72,459,059
1923...	127,976	78,282,372	19,226	8,941,011	147,202	87,223,383
1924...	114,537	70,609,960	18,043	8,125,916	132,580	78,735,876
1925...	135,573	86,158,773	26,397	12,234,486	161,970	98,393,259
1926...	166,887	106,000,203	37,840	16,629,334	204,727	122,629,537
1927...	146,421	100,962,211	32,633	14,942,017	179,054	115,904,228
1928...	197,848	127,263,877	44,206	21,913,122	242,054	149,176,999
1929...	203,307	134,023,280	59,318	29,474,395	262,625	163,497,675
1930...	121,337	75,253,581	32,035	16,513,225	153,372	91,766,806
1931...	65,072	42,634,173	17,487	10,330,763	82,559	52,964,936
1932...	50,694	32,490,129	10,095	6,070,667	60,789	38,560,796
1933...	53,849	32,568,268	12,003	6,062,195	65,852	38,630,463
1934...	92,647	57,260,156	24,205	12,770,318	116,852	70,030,474
1935...	135,562	79,209,276	37,315	19,803,771	172,877	99,013,047
1936...	128,369	76,814,258	33,790	19,140,946	162,159	95,955,204
1937...	153,046	93,368,282	54,417	30,389,011	207,463	123,757,293
1938...	123,761	81,661,687	42,325	26,497,038	166,086	108,158,725
1939...	108,369	71,101,204	47,057	28,072,712	155,426	99,173,916

## Canadian Motor Vehicle Manufacturing Industry

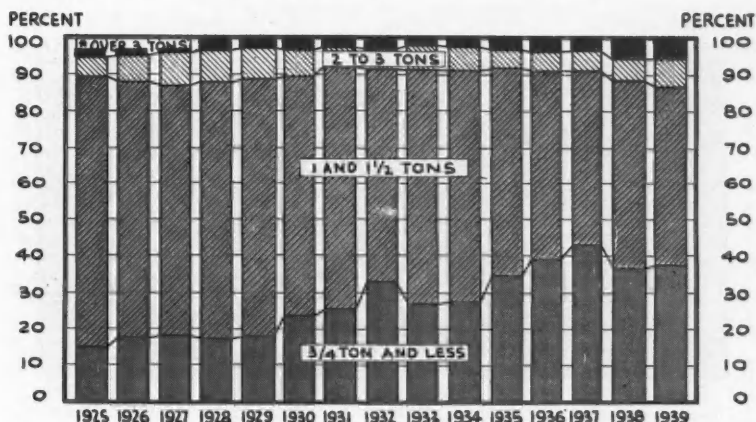
Year	Number of Plants	Capital Employed	Average No. of Employees	Salaries and Wages	Exports Cars and Trucks Number	Imports Cars and Trucks Number
1929.....	17	\$98,378,301	16,435	\$26,864,808	101,711	44,724
1930.....	16	90,671,678	12,541	19,473,782	44,553	23,233
1931.....	26	59,638,057	9,545	13,113,192	13,813	8,738
1932.....	25	49,641,777	8,810	11,435,741	12,534	1,449
1933.....	22	40,000,559	8,134	8,557,331	20,403	1,781
1934.....	21	34,520,938	9,674	12,938,933	43,368	2,905
1935.....	20	40,765,548	13,095	18,797,599	64,330	4,111
1936.....	16	46,497,259	12,933	18,164,042	55,570	9,903
1937.....	15	57,996,242	14,946	22,138,991	65,867	20,069
1938.....	12	59,798,250	14,872	20,993,362	57,909	15,154
1939.....	12	59,470,986	14,427	20,573,714	56,223	18,284

## Automobile Parts and Accessories Industry in Canada

Year	Number of Plants	Capital Employed	Average No. of Employees	Salaries and Wages	Wholesale Value of Products	Value of Exports	Value of Imports*
1929...	65	\$19,401,890	4,708	\$6,711,434	\$31,965,078	\$2,350,232	\$44,772,091
1930...	57	16,654,683	3,580	4,527,179	18,401,587	1,587,571	23,358,763
1931...	73	15,617,986	2,899	3,429,841	12,600,256	829,838	14,442,570
1932...	76	17,332,257	3,832	3,874,618	12,161,456	1,846,033	11,588,190
1933...	83	16,975,182	3,776	3,569,483	13,001,185	1,337,302	10,836,590
1934...	80	19,393,687	5,172	5,498,360	24,378,762	2,415,222	19,474,767
1935...	82	23,260,333	6,614	7,411,434	32,684,252	2,925,667	24,517,832
1936...	85	24,730,610	6,842	7,776,726	33,378,508	2,899,946	24,044,191
1937...	88	28,440,176	8,416	10,358,098	46,631,643	2,919,981	32,774,858
1938...	97	27,480,773	7,900	9,849,996	36,980,424	2,679,265	24,694,191
1939...	Not available at time of going to press						

\*Does not include automobile engines.

# 88% of Truck Output Is Below 2-Ton Capacity



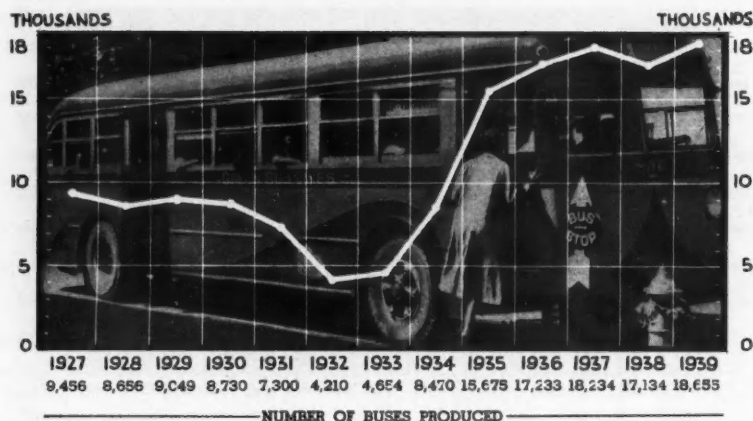
## Factory Sales of Motor Trucks by Capacities UNITED STATES AND CANADA

TON RATING	1934	Per Cent	1935	Per Cent	1936	Per Cent
3/4 or less.....	172,089	28.6	245,957	34.1	316,208	38.6
1 and less than 1 1/2	2,341	.4	2,259	.3	9,686	1.1
1 1/2 " " " 2	376,475	62.9	420,597	57.5	423,503	52.0
2 " " " 2 1/2	25,995	4.3	28,950	4.0	30,637	3.7
2 1/2 " " " 3 1/2	11,136	1.9	10,465	1.4	12,309	1.5
3 1/2 " " " 5	4,752	.8	3,612	.5	4,621	.5
5 and over.....	2,869	.5	3,824	.5	5,567	.7
Special types†.....	3,740	.6	*12,341	*1.7	*15,846	*1.9
Total.....	599,397	100%	732,005	100%	818,377	100%
	1937	Per Cent	1938	Per Cent	1939	Per Cent
3/4 or less.....	395,157	41.7	194,827	36.7	292,768	38.6
1 and less than 1 1/2	21,580	2.3	30,951	5.8	29,725	3.9
1 1/2 " " " 2	441,156	46.6	246,200	46.4	344,199	45.5
2 " " " 2 1/2	30,431	3.2	18,375	3.5	26,701	3.5
2 1/2 " " " 3 1/2	18,971	2.0	9,954	1.9	7,619	1.0
3 1/2 " " " 5	6,170	.6	4,539	.9	18,801	2.5
5 and over.....	9,248	1.0	5,820	1.1	7,365	1.0
Special types†.....	*24,789	*2.6	*19,759	*3.7	*30,375	*4.0
Total.....	947,502	100%	530,425	100%	757,553	100%

\*Including station wagons. †—Includes buses, fire apparatus, street sweepers and other special purpose vehicles which have been built by motor vehicle manufacturers specifically for the purpose, but excludes those vehicles converted into these types after having been shipped from the factory.

# 1939 Bus Output Reaches New High Mark

(Figures from "Bus Transportation")



## 138,250 Motor Buses in United States, 1939

(Figures as of December 31st from "Bus Transportation")

REVENUE	1933	1934	1935	1936	1937	1938	1939
1. City.....	16,500	17,580	19,250	22,000	24,500	29,200	30,335
2. Intercity.....	26,314	22,820	23,750	24,750	24,750	20,000	18,614
Total (1 + 2).....	42,814	40,400	43,000	46,750	49,250	49,200	48,949
3. Sightseeing and charter hire.....	2,186	2,600	2,000	2,250	2,250	2,300	2,601
Total (1 + 2 + 3)...	45,000	43,000	45,000	49,000	51,500	51,500	51,550
NON-REVENUE							
4. Schools*.....	60,300	64,130	71,850	73,900	78,100	80,100	85,700
5. Hotel.....	350	300	300	300	300	300	300
6. Industrial.....	600	500	500	500	500	500	500
7. Miscellaneous.....	250	200	200	200	200	200	200
Total (4 + 5 + 6 + 7)	61,500	65,130	72,850	74,900	79,100	81,100	86,700
Grand Total.....	106,500	108,130	117,850	123,900	130,600	132,600	138,250
a. Motor carriers.....	33,280	29,990	30,650	34,400	36,000	29,400	29,249
b. Electric railways...	11,000	11,600	12,600	12,850	13,700	18,000	18,000
c. Steam railroads....	720	1,410	1,750	1,750	1,800	1,800	1,700

\*About 6,000 buses in school service are operated part time as common carriers and consequently are included in the figure for that service.

# Motor Vehicle Registrations, 1895-1939

(Figures as of December 31st)

Years	PASSENGER CARS		MOTOR TRUCKS		TOTAL MOTOR VEHICLES	
	Number	Per Cent Change	Number	Per Cent Change	Number	Per Cent Change
1895	4	....	....	....	4	....
1896	16	....	....	....	16	....
1897	90	....	....	....	90	....
1898	800	....	....	....	800	....
1899	3,200	....	....	....	3,200	....
1900	8,000	....	....	....	8,000	....
1901	14,800	+85	....	....	14,800	+85
1902	23,000	+55	....	....	23,000	+55
1903	32,920	+43	....	....	32,920	+43
1904	54,590	+66	700	....	55,290	+68
1905	77,400	+42	1,400	+100	78,800	+43
1906	105,900	+37	2,200	+57	108,100	+37
1907	140,300	+33	2,900	+32	143,200	+32
1908	194,400	+38	4,000	+38	198,400	+38
1909	305,950	+57	6,050	+51	312,000	+57
1910	458,500	+50	10,000	+65	468,500	+50
1911	619,500	+35	20,000	+100	639,500	+36
1912	902,600	+46	41,400	+107	944,000	+48
1913	1,194,262	+32	63,800	+54	1,258,062	+33
1914	1,625,739	+36	85,600	+34	1,711,339	+36
1915	2,309,666	+42	136,000	+59	2,445,666	+43
1916	3,297,996	+43	215,000	+58	3,512,996	+44
1917	4,657,340	+42	326,000	+52	4,983,340	+42
1918	5,621,617	+21	525,000	+61	6,146,617	+23
1919	6,771,074	+21	794,372	+51	7,565,446	+23
1920	8,225,859	+22	1,006,082	+27	9,231,941	+22
1921	9,346,195	+14	1,117,100	+11	10,463,295	+13
1922	10,862,650	+16	1,375,725	+23	12,238,375	+17
1923	13,479,608	+24	1,612,569	+17	15,092,177	+23
1924	15,460,649	+15	2,134,724	+32	17,595,373	+17
1925	17,496,420	+13	2,440,854	+14	19,937,274	+13
1926	19,237,171	+10	2,764,222	+13	22,001,393	+10
1927	20,219,224	+5	2,914,019	+5	23,133,243	+5
1928	21,379,125	+6	3,113,999	+7	24,493,124	+6
1929	23,121,589	+8	3,379,854	+8	26,501,443	+8
1930	23,059,262	-1/2	3,486,019	+3	26,545,281	+16
1931	22,366,313	-3	3,466,571	-6	25,832,884	-2.5
1932	20,885,814	-6.6	3,229,315	-7	24,115,129	-6.7
1933	20,643,564	-1.2	3,230,668	+0.4	23,874,232	-1.0
1934	21,532,408	+4.4	3,419,254	+5.9	24,951,662	+4.6
1935	22,562,847	+4.9	3,664,429	+7.2	26,227,276	+5.1
1936	24,178,211	+7.1	3,987,339	+8.9	28,165,550	+7.3
1937	25,449,924	+5.4	4,255,296	+6.9	29,705,220	+5.5
1938	25,261,649	-0.7	4,224,031	-0.7	29,485,680	-0.7
1939	26,201,395	+3.7	4,413,692	+4.5	30,615,087	+3.8

## Tax-Exempt Official Cars Not Included in the Above Registration<sup>①</sup>

Year	U. S. Cars†	State and Local	Total	Year	U. S. Cars†	State and Local	Total
1934...	79,996	191,512	271,508	1937...	104,792	231,280	336,072
1935...	94,503	189,454	283,957	1938...	109,761	257,469	367,230
1936...	99,038	200,230	299,268	1939...	121,270	237,513	394,783

①—Some states require government-owned vehicles to pay registration fees same as privately-owned vehicles. In such states the government-owned vehicles are included among the regular registrations in above table. †Source: Procurement Division, U. S. Treasury Department. Segregation of passenger cars from trucks by states is shown in table on page 20.

# Total Motor Vehicle Registrations by States

(Figures from U. S. Public Roads Administration as of December 31st, exclusive of publicly-owned vehicles)

STATES	1919	1929	1936	1937	1938	1939
Alabama	58,898	285,533	297,292	313,359	301,990	325,472
Arizona	28,979	109,013	115,035	129,210	128,791	131,355
Arkansas	49,450	233,128	217,227	229,867	220,391	241,425
California	477,450	1,974,341	2,327,984	2,484,653	2,510,867	2,606,590
Colorado	104,865	303,489	316,050	337,217	332,774	343,487
Connecticut	102,410	328,063	403,263	436,564	440,335	460,870
Delaware	16,152	54,960	59,629	63,599	64,078	67,992
Dist. of Columbia	35,400	151,450	181,319	184,119	-162,863	164,673
Florida	55,400	345,977	386,907	418,145	423,021	451,357
Georgia	137,000	358,905	410,583	441,847	432,360	469,440
Idaho	42,220	118,074	133,037	142,110	137,851	153,226
Illinois	478,438	1,615,088	1,659,750	1,768,946	1,780,865	1,849,623
Indiana	227,255	866,715	905,088	956,016	922,788	960,842
Iowa	364,043	784,450	728,414	745,602	740,021	766,412
Kansas	228,600	581,223	577,906	586,685	573,985	574,472
Kentucky	90,008	332,848	372,576	404,455	414,207	437,188
Louisiana	51,000	280,868	302,420	323,498	326,199	340,091
Maine	53,425	184,506	191,554	200,907	196,690	200,867
Maryland	95,634	319,873	378,462	387,410	395,347	425,064
Massachusetts	247,182	817,704	816,711	846,556	843,789	871,936
Michigan	325,813	1,395,102	1,373,676	1,505,111	1,408,835	1,472,311
Minnesota	259,741	730,399	783,627	822,598	821,241	840,050
Mississippi	59,000	250,011	205,890	226,286	215,195	244,086
Missouri	244,363	756,680	809,615	835,895	837,118	877,094
Montana	59,324	140,387	167,150	173,892	171,326	180,319
Nebraska	200,000	418,226	413,787	412,726	407,330	406,905
Nevada	9,305	31,915	38,509	40,655	38,424	40,771
New Hampshire	31,625	108,880	122,236	125,939	124,379	131,302
New Jersey	190,873	832,332	943,412	994,497	1,000,684	1,027,747
New Mexico	18,082	78,374	108,729	118,106	116,537	120,441
New York	566,511	2,263,259	2,453,542	2,561,703	2,584,123	2,655,733
North Carolina	109,017	483,602	504,517	525,350	537,242	573,497
North Dakota	82,885	188,046	167,241	173,188	174,256	176,501
Ohio	511,031	1,766,614	1,777,048	1,876,132	1,870,249	1,886,984
Oklahoma	144,500	570,791	531,914	547,263	535,399	556,163
Oregon	83,332	269,007	332,729	360,348	357,321	369,330
Pennsylvania	482,117	1,733,283	1,857,366	1,984,821	1,976,466	2,054,787
Rhode Island	44,833	134,009	159,140	167,586	168,888	175,068
South Carolina	70,143	231,274	278,829	296,224	287,913	314,628
South Dakota	104,628	204,199	186,480	184,743	180,632	189,485
Tennessee	80,422	362,431	380,792	400,384	398,624	423,956
Texas	331,310	1,348,107	1,478,124	1,552,114	1,548,343	1,618,039
Utah	35,236	112,661	116,816	126,692	127,004	132,871
Vermont	26,807	93,030	84,155	88,958	87,402	90,713
Virginia	94,100	387,205	417,463	440,713	441,462	460,416
Washington	148,775	442,341	499,760	535,483	523,328	535,799
West Virginia	50,203	268,888	280,015	290,837	275,691	286,167
Wisconsin	236,290	793,502	835,178	854,374	840,291	848,658
Wyoming	21,371	60,680	76,603	81,837	80,765	82,884

Totals 7,565,446 26,501,443 28,165,550 29,705,220 29,485,680 30,615,087



# Car and Truck Registrations by States

(Figures from U. S. Public Roads Administration as of December 31st)

STATES	PASSENGER CARS		MOTOR TRUCKS	
	1937	1938	1937	1938
Alabama	257,248	250,074	266,582	56,111
Arizona	106,237	105,793	107,272	22,973
Arkansas	173,923	167,045	181,052	55,944
California	2,189,378*	2,213,152*	2,298,608*	295,275*
Colorado	282,123	277,860	286,913	55,094
Connecticut	368,473	369,693	387,299	68,091
Delaware	53,285*	53,559*	56,744	10,314*
District of Columbia	165,257	148,614	150,955	18,862
Florida	347,837	352,978	378,116	70,308
Georgia	363,641	359,204	387,489	78,206
Idaho	113,605	109,716	121,714	28,505
Illinois	1,554,567*	1,565,202*	1,624,031	214,379*
Indiana	815,724	795,118	824,196	140,292
Iowa	657,734	650,534	671,858	87,868
Kansas	493,639	476,587	475,856	93,046
Kentucky	345,114	350,531	367,903	59,341
Louisiana	245,665	248,754	263,188	77,833
Maine	157,736	154,027	157,605	43,171
Maryland	332,928	339,896	365,376	54,482
Massachusetts	742,521	739,323	765,656	104,035
Michigan	1,359,665*	1,269,894*	1,326,808	145,446*
Minnesota	704,437	705,271	721,473	118,161
Mississippi	173,214	163,709	186,989	53,072
Missouri	701,894	703,457	735,485	134,001
Montana	134,729*	130,188*	135,839	39,163*
Nebraska	350,833	342,275	343,879	61,893
Nevada	32,563	30,899	32,781	8,092
New Hampshire	99,983*	97,635*	102,644	25,956*
New Jersey	861,795	868,734	894,061	132,702
New Mexico	90,833	89,592	91,953	27,273
New York	2,233,695	2,259,468	2,324,451	328,008
North Carolina	449,897	461,141	486,548	75,453
North Dakota	141,104	141,195	142,523	32,084
Ohio	1,695,648*	1,686,555*	1,702,761	180,484*
Oklahoma	448,588	441,184	457,991	98,675
Oregon	299,689	297,492	306,581	60,659†
Pennsylvania	1,738,797	1,730,893	1,803,366	246,024
Rhode Island	148,583	149,634	155,369	19,003
South Carolina	250,820	246,585	270,901	45,404
South Dakota	155,948	152,138	159,099	28,795
Tennessee	341,648	337,584	356,903	58,736†
Texas	1,237,348	1,231,424	1,282,398	314,766
Utah	105,571	107,038	111,656	21,121
Vermont	79,606	78,360	81,137	9,352
Virginia	371,708	373,896	390,498	69,005
Washington	450,906	440,128	450,305	84,577
West Virginia	246,162	230,637	237,878	44,675
Wisconsin	713,166	703,807	705,751	141,208
Wyoming	64,459	63,176	64,954	17,378
Totals	25,449,924	25,261,649	26,201,395	4,255,296
				4,224,031
				4,413,692

\*Buses included with motor trucks. In all other states, buses included with passenger cars.

†includes freight trailers.

‡Trucks under 1,500 pounds capacity included with passenger cars.

# 41% of all Motor Vehicles Registered on

## 13% in Cities Over 500,000 Population—Survey Includes

(SOURCE: U. S. Public  
Incorporated places

State	Farms and Unincor- porated Areas	1,000 or Less	1,001 to 2,500	2,501 to 5,000	5,001 to 10,000	10,001 to 25,000
Alabama.....	159,915	14,509	19,101	19,109	12,304	30,292
Arizona.....	63,817	2,453	7,038	7,071	18,797	.....
Arkansas.....	132,556	18,623	16,944	21,828	12,848	24,963
California③.....	798,564	24,796	81,604	105,972	180,310	217,523
Colorado.....	102,677	24,680	26,977	14,513	23,550	26,077
Connecticut③.....	33,606	①	①	41,652	46,922	82,494
Delaware③.....	25,783	5,408	6,829	6,388	.....	.....
Florida.....	127,974	18,857	27,616	32,029	40,981	39,070
Georgia.....	212,624	28,213	29,968	26,683	26,214	38,239
Idaho.....	94,903	16,237	13,782	19,068	18,539	16,416
Illinois.....	353,260	105,615	98,647	78,120	116,692	129,212
Indiana.....	383,477	62,565	52,967	43,807	61,767	75,595
Iowa.....	287,236	142,511	85,643	72,610	36,528	61,349
Kansas.....	227,243	66,279	47,482	38,700	30,449	71,493
Kentucky.....	235,086	16,737	21,565	17,150	23,873	21,214
Louisiana.....	139,770	15,313	17,597	23,456	17,797	17,234
Maine.....	89,024	①	①	32,821	27,770	31,680
Maryland.....	181,677	15,891	13,551	17,371	8,664	19,202
Massachusetts③.....	53,561	①	①	53,952	86,217	173,024
Michigan.....	305,324	79,896	103,192	77,675	95,977	123,281
Minnesota.....	323,631	97,211	57,349	52,697	40,048	57,320
Mississippi③.....	151,418	20,154	17,072	14,361	4,779	29,074
Missouri.....	268,582	72,258	63,488	45,785	52,236	53,324
Montana.....	104,659	11,129	12,251	5,613	12,441	22,568
Nebraska.....	206,250	56,225	39,028	19,944	21,169	26,359
Nevada.....	18,718	399	4,803	5,300	3,892	10,684
New Hampshire.....	26,250	①	31,040	16,772	6,836	26,478
New Jersey③.....	203,788	①	①	64,020	101,638	162,791
New Mexico.....	53,286	6,223	9,048	10,555	19,876	10,789
New York.....	535,858	65,952	112,667	109,919	104,423	233,579
North Carolina.....	277,352	66,163	53,201	37,937	39,772	45,993
North Dakota.....	106,740	27,662	10,246	1,720	10,418	13,466
Ohio.....	574,648	86,055	85,268	76,961	113,852	155,536
Oklahoma.....	215,025	34,266	49,151	33,882	53,924	58,949
Oregon.....	146,858	34,993	19,993	14,918	21,272	21,314
Pennsylvania.....	575,918③	58,791	105,171	158,900	181,282	265,899
Rhode Island③.....	6,253	①	①	7,791	12,448	28,325
South Carolina.....	171,435	17,916	26,667	18,165	20,902	20,546
South Dakota.....	108,655	33,794	19,142	10,536	8,899	21,429
Tennessee③.....	198,356	16,599	17,252	21,194	24,871	10,491
Texas.....	638,653	55,250	108,285	106,115	97,560	127,535
Utah.....	33,639	11,796	12,919	11,806	7,048	3,857
Vermont.....	49,092	4,591	10,029	3,929	12,155	14,119
Virginia.....	316,285	10,522	14,978	12,001	16,008	22,872
Washington.....	214,648	31,625	28,716	26,082	9,200	51,396
West Virginia.....	126,206	12,392	27,601	16,002	22,817	22,075
Wisconsin.....	269,391	89,955	57,132	50,157	47,961	67,440
Wyoming.....	42,835	7,495	13,031	3,567	11,346	17,802
District of Columbia.....	.....	.....	.....	.....	.....	.....
Total.....	9,972,506	1,587,999	1,676,031	1,706,604	1,965,272	2,800,368

①—Based on data from motor vehicle allocation studies of the state-wide highway planning surveys and U. S. Census of population, 1930.

②—Includes privately owned motor vehicles, trailers, and motorcycles.



# Farms and in Towns Under 2500 Population

## Privately Owned Motor Vehicles, Trailers and Motor Cycles

Roads Administration(1)

having a population of—

25,001 to 50,000	50,001 to 100,000	100,001 to 250,000	250,001 to 500,000	500,001 or More	Total	State
6,278	27,255	.....	48,566	.....	337,329	Alabama
41,929	.....	.....	.....	.....	141,105	Arizona
8,536	20,665	.....	.....	.....	256,963	Arkansas
149,518	204,324	138,561	137,534	771,887	2,810,593	California(2)
14,782	15,206	.....	100,351	.....	348,813	Colorado
90,347	64,090	114,194	.....	.....	473,305	Connecticut(2)
.....	.....	28,028	.....	.....	72,436	Delaware(2)
56,068	.....	136,443	.....	.....	479,038	Florida
10,434	42,894	.....	77,534	.....	492,803	Georgia
.....	.....	.....	.....	.....	178,945	Idaho
166,786	157,751	34,048	.....	654,846	1,894,977	Illinois
85,202	49,162	118,843	112,984	.....	1,046,369	Indiana
68,318	69,227	51,850	.....	.....	875,272	Iowa
10,841	21,327	69,212	.....	.....	583,026	Kansas
33,030	12,082	.....	64,662	.....	445,399	Kentucky
17,330	25,831	.....	87,429	.....	361,757	Louisiana
14,976	18,976	.....	.....	.....	215,247	Maine
17,515	.....	.....	.....	162,470	436,341	Maryland
133,385	100,487	183,386	.....	106,217	890,229	Massachusetts(2)
87,337	168,845	108,162	.....	484,808	1,634,497	Michigan
.....	.....	25,592	239,223	.....	893,071	Minnesota
16,489	.....	.....	.....	.....	253,347	Mississippi(2)
20,004	33,734	.....	100,547	208,604	918,562	Missouri
21,364	.....	.....	.....	.....	190,025	Montana
.....	27,753	59,453	.....	.....	456,181	Nebraska
.....	.....	.....	.....	.....	43,796	Nevada
15,165	15,947	.....	.....	.....	138,488	New Hampshire
138,943	116,972	114,761	150,925	.....	1,053,838	New Jersey(2)
16,913	.....	.....	.....	.....	126,690	New Mexico
107,171	123,659	148,391	101,675	1,104,691	2,747,985	New York
30,314	83,779	.....	.....	.....	634,511	North Carolina
9,177	.....	.....	.....	.....	179,429	North Dakota
144,503	75,934	135,039	376,355	229,426	2,053,577	Ohio
19,139	.....	117,427	.....	.....	581,763	Oklahoma
9,693	.....	.....	109,388	.....	378,429	Oregon
109,447	157,696	76,800	.....	434,934	2,124,838	Pennsylvania
48,263	19,979	.....	55,426	.....	178,485	Rhode Island(2)
19,592	32,539	.....	.....	.....	327,762	South Carolina
11,933	.....	.....	.....	.....	214,388	South Dakota
6,341	.....	95,418	45,218	.....	435,740	Tennessee(2)
68,465	94,881	165,523	238,471	.....	1,700,738	Texas
11,637	.....	44,277	.....	.....	136,979	Utah
.....	.....	.....	.....	.....	93,915	Vermont
22,848	13,083	52,877	.....	.....	481,474	Virginia
19,913	.....	73,566	114,342	.....	569,488	Washington
17,548	52,433	.....	.....	.....	297,074	West Virginia
87,358	51,886	.....	.....	147,095	868,375	Wisconsin
.....	.....	.....	.....	.....	96,076	Wyoming
.....	.....	.....	166,103	.....	166,103	Dist. of Columbia

1,984,832 1,898,397 2,091,851 2,326,733 4,304,978 32,315,571(2) Total

(1)—Estimated on basis of similar states; planning survey data not available.

(2)—All towns or townships having 2,500 population or less included with "unincorporated areas."

(2)—Represents second class townships.

# Standing of States in Registrations, 1939

(Based on Public Roads Administration data.)

Motor Vehicle Registration	Numerical Increase from 1938	Per Cent Increase from 1938	Population Per Passenger Car <sup>①</sup>
1 N. Y. 2,655,733	1 Cal. 95,723	1 Miss. 13.4	1 Cal. 2.7
2 Cal. 2,606,590	2 Pa. 78,321	2 Idaho 11.2	2 Nev. 3.1
3 Pa. 2,054,787	3 N. Y. 71,610	3 Ark. 9.5	3 Ore. 3.3
4 Ohio 1,886,984	4 Tex. 69,696	4 S. C. 9.3	4 Wyo. 3.6
5 Ill. 1,849,623	5 Ill. 68,758	5 Ga. 8.6	5 Mich. 3.6
6 Tex. 1,618,039	6 Mich. 63,476	6 Ala. 7.8	6 Minn. 3.7
7 Mich. 1,472,311	7 Mo. 39,976	7 Md. 7.5	7 Wash. 3.7
8 N. J. 1,027,747	8 Ind. 38,054	8 N. C. 6.7	8 Colo. 3.7
9 Ind. 960,842	9 Ga. 37,080	9 Fla. 6.7	9 Iowa 3.8
10 Mo. 877,094	10 N. C. 36,255	10 Tenn. 6.4	10 Ariz. 3.8
11 Mass. 871,936	11 Md. 29,717	11 Del. 6.1	11 Kan. 3.9
12 Wis. 848,658	12 Miss. 28,891	12 Nev. 6.1	12 Ohio 4.0
13 Minn. 840,050	13 Fla. 28,336	13 N. H. 5.6	13 Neb. 4.0
14 Iowa 766,412	14 Mass. 28,147	14 Ky. 5.5	14 Mont. 4.0
15 Kan. 574,472	15 N. J. 27,063	15 Mont. 5.2	15 Idaho 4.1
16 N. C. 573,497	16 S. C. 26,715	16 S. D. 4.9	16 Wis. 4.1
17 Okla. 556,163	17 Iowa 26,391	17 Mo. 4.8	17 D. C. 4.2
18 Wash. 535,799	18 Tenn. 25,332	18 Conn. 4.7	18 Ind. 4.2
19 Ga. 469,440	19 Ala. 23,482	19 Utah 4.6	19 S. D. 4.3
20 Conn. 460,870	20 Ky. 22,981	20 Mich. 4.5	20 R. I. 4.4
21 Va. 460,416	21 Ark. 21,034	21 Tex. 4.5	21 Fla. 4.4
22 Fla. 451,357	22 Okla. 20,764	22 Va. 4.3	22 Conn. 4.6
23 Ky. 437,188	23 Conn. 20,535	23 La. 4.3	23 N. M. 4.6
24 Md. 425,064	24 Va. 18,954	24 Ind. 4.1	24 Md. 4.6
25 Tenn. 423,956	25 Minn. 18,809	25 Pa. 4.0	25 Del. 4.6
26 Neb. 406,905	26 Ohio 16,735	26 Okla. 3.9	26 Utah 4.6
27 Ore. 369,330	27 Idaho 15,375	27 Ill. 3.9	27 Vt. 4.7
28 Colo. 343,487	28 La. 13,892	28 Cal. 3.8	28 Tex. 4.8
29 La. 340,091	29 Wash. 12,471	29 W. Va. 3.8	29 Ill. 4.9
30 Ala. 325,472	30 Ore. 12,009	30 Vt. 3.8	30 N. J. 4.9
31 S. C. 314,628	31 Colo. 10,713	31 R. I. 3.7	31 N. D. 5.0
32 W. Va. 286,167	32 W. Va. 10,476	32 Iowa 3.6	32 N. H. 5.0
33 Miss. 244,086	33 Mont. 8,993	33 Ore. 3.4	33 Mo. 5.4
34 Ark. 241,425	34 S. D. 8,853	34 N. M. 3.4	34 Me. 5.4
35 Me. 200,867	35 Wis. 8,367	35 Mass. 3.3	35 Okla. 5.6
36 S. D. 189,485	36 N. H. 6,923	36 Colo. 3.2	36 N. Y. 5.6
37 Mont. 180,319	37 R. I. 6,180	37 N. Y. 2.8	37 Pa. 5.6
38 N. D. 176,501	38 Utah 5,867	38 N. J. 2.7	38 Mass. 5.8
39 R. I. 175,068	39 Me. 4,177	39 Wyo. 2.6	39 S. C. 6.9
40 D. C. 164,673	40 Del. 3,914	40 Wash. 2.4	40 Va. 6.9
41 Idaho 153,226	41 N. M. 3,904	41 Minn. 2.3	41 N. C. 7.2
42 Utah 132,871	42 Vt. 3,311	42 Me. 2.1	42 W. Va. 7.8
43 Ariz. 131,355	43 Ariz. 2,564	43 Ariz. 2.0	43 Ky. 7.9
44 N. H. 131,302	44 Nev. 2,347	44 N. D. 1.3	44 Ga. 8.0
45 N. M. 120,441	45 N. D. 2,245	45 D. C. 1.1	45 La. 8.1
46 Vt. 90,713	46 Wyo. 2,119	46 Wis. 1.0	46 Tenn. 8.1
47 Wyo. 82,884	47 D. C. 1,810	47 Ohio. 0.9	47 Miss. 10.8
48 Del. 67,992	48 Kan. 487	48 Kan. 0.1	48 Ala. 10.9
49 Nev. 40,771	49 Neb. -425	49 Neb. -0.1	49 Ark. 11.3
U. S. 30,615,087	U. S. 1,129,407	U. S. 3.8	U. S. 4.9

①—Population figures are 1937, the latest available by states.

# 1,193,000 U. S. Trailer Registrations in 1939

(SOURCE: U. S. Public Roads Administration)

States	1938	1939	States	1938	1939
Alabama.....	3,890	4,574	New Hampshire.....	4,767	5,708
Arizona.....	4,567	4,628	New Jersey.....	7,276	7,679
Arkansas.....	10,162	10,707	New Mexico.....	2,575	2,762
California.....	142,268	155,316	New York.....	40,771	46,845
Colorado.....	1,422	1,574	North Carolina.....	42,317	44,882
Connecticut.....	5,356	5,951	North Dakota.....	849	984
Delaware.....	2,772	3,047	Ohio.....	105,249	134,174
Florida.....	17,324	18,793	Oklahoma.....	36,498	14,757
Georgia.....	12,684	13,617	Oregon.....	①	①
Idaho.....	18,172	21,513	Pennsylvania.....	26,225	30,738
Illinois.....	23,073	24,966	Rhode Island.....	631	686
Indiana.....	62,914	71,584	South Carolina.....	5,396	5,598
Iowa.....	87,447	98,292	South Dakota.....	19,080	21,821
Kansas.....	6,728	5,795	Tennessee.....	①	②
Kentucky.....	②	①	Texas.....	50,944	54,514
Louisiana.....	14,587	13,673	Utah.....	569	558
Maine.....	10,144	10,658	Vermont.....	1,853	2,026
Maryland.....	4,208	4,641	Virginia.....	9,350	9,877
Massachusetts.....	13,122	14,585	Washington.....	17,826	20,882
Michigan.....	141,647	154,262	West Virginia.....	3,058	3,382
Minnesota.....	31,033	42,175	Wisconsin.....	5,047	5,783
Mississippi.....	1,771	4,149	Wyoming.....	10,209	10,795
Missouri.....	33,368	34,317	District of Columbia..	809	788
Montana.....	2,953	4,195			
Nebraska.....	41,294	43,473			
Nevada.....	1,218	1,361			
			Totals.....	1,085,422	1,193,085

NOTE—Figures include passenger car trailers.

①—Not reported. ②—Classified with trucks.

## Classification of Trailers According to Type

(SOURCE: U. S. Public Roads Administration, Dec. 31, 1938)

State	Car, Camp Trailers, Etc.	COMMERCIAL TRAILERS				Total
		Full Trailers	Semi-Trailers	Full and Service	Total	
Connecticut.....	4,234	654	468	—	1,122	5,356
Florida.....	11,442	5,882	—	—	5,882	17,324
Georgia.....	1,926	10,758	—	—	10,758	12,684
Idaho.....	17,643	—	—	529	529	18,172
Indiana.....	2,976	54,456	5,482	—	59,938	62,914
Iowa.....	63,000	—	—	—	24,447	87,447
Louisiana.....	1,748	—	12,838	—	12,838	14,586
Maine.....	9,938	②	306	—	306	10,144
Michigan.....	9,542	—	—	132,105	132,105	141,647
Minnesota.....	25,510	5,523	—	—	5,523	31,033
Mississippi.....	1,726	45	—	—	45	1,771
Montana.....	2,953	—	—	—	—	2,953
Nebraska.....	39,443	1,851	—	—	1,851	41,294
Nevada.....	1,169	40	9	—	49	1,218
New Hampshire.....	70	118	4,579	—	4,697	4,767
North Dakota.....	620	229	—	—	229	849
Oklahoma.....	28,647	7,851	—	—	7,851	36,498
South Dakota.....	18,490	—	—	590	590	19,080
Utah.....	—	108	461	—	569	569
Totals.....	240,977	87,515	24,143	133,224	268,729	510,306

Note—Segregation of trailers according to type is not available in other states.

①—Includes small number of Commercial Trailers. ②—Included with trucks.

# City Automobile Registration, Street

One Passenger Car for Every 5.5 Persons in  
Cities Above 100,000 Population

(Please credit The Reuben H. Donnelley Corporation)

Cities Above 100,000 Population	Pass. Cars①	Trucks①	Popu- lation②	Pop. Per Pass.Car	Area Sq.③ Miles	Paved Street④ Mileage	Unpaved Street⑤ Mileage	Total Street⑥ Mileage
Akron, Ohio . . . .	61,184	6,339	255,000	4.2	53.8	358	389	747
Albany, N. Y. . . .	27,537	5,452	130,000	4.7	19.0	150	55	205
Atlanta, Ga. . . .	69,185	11,482	290,000②	4.2	37.0	475	129	604
Baltimore, Md. . .	120,905	18,587	872,456	7.2	78.7	917	136	1,053
Birmingham, Ala.	41,637	6,920	190,000	4.6	50.3	485	600	1,085
Boston, Mass. . . .	88,392	19,129	856,182	9.7	47.8①	700	4	704
Bridgeport, Conn.	29,005	4,978	146,716	5.1	17.9	160	74	234
Buffalo, N. Y. . . .	128,405	14,466	600,000	4.7	42.0	639	33	672
Cambridge, Mass.	15,442	4,067	118,075	7.6	6.3	115	14	129
Camden, N. J. . . .	18,622	2,948	120,000	6.4	8.7	153	17	170
Canton, Ohio . . .	27,041	3,108	120,000	4.4	14.0	131	204	335
Chattanooga, Tenn.	21,435	3,703	170,000	7.9	27.4	278	270	548
Chicago, Ill. . . .	531,313	62,547	3,629,353	6.8	212.8	3,418	211	3,629
Cincinnati, Ohio .	91,283	12,539	473,420	5.2	72.0	823	125	948
Cleveland, Ohio .	203,846	23,076	934,500	4.6	73.4	992	161	1,153
Columbus, Ohio . .	83,164	12,050	300,000	3.6	39.4	522	50	572
Dallas, Texas . . .	82,213	11,454	315,000	3.8	40.6	450	172	622
Dayton, Ohio . . .	61,249	6,005	225,000	3.7	23.4	210	171	381
Denver, Colo. . . .	91,051	11,131	315,000	3.5	58.8	182	848	1,030
Des Moines, Ia. . .	40,289	5,433	154,000	3.8	53.8	340	260	600
Detroit, Mich. . . .	412,061	37,872	1,759,171	4.3	139.6	1,882	725	2,607
Duluth, Minn. . . .	22,840	3,207	125,000	5.5	62.3	180	300	480
Elizabeth, N. J. . .	20,490	2,345	125,000	6.1	11.8	119	13	132
El Paso, Texas . . .	17,477	2,822	100,000	5.7	13.5	132	128	260
Erie, Pa. . . . .	28,373	3,350	116,000	4.1	20.0	171	131	302
Evansville, Ind. . .	26,811	4,349	110,000	4.1	9.7	151	53	204
Fall River, Mass. .	12,711	2,144	115,907	9.1	33.9	166	81	247
Flint, Mich. . . . .	45,213	3,526	168,000	3.7	29.3	193	310	503
Fort Wayne, Ind. .	34,539	4,317	130,000	3.8	17.5	228	91	319
Fort Worth, Texas .	46,096	7,095	195,000	4.2	46.0	417	250	667
Gary, Ind. . . . .	23,574	2,445	115,000	4.9	40.3	228	62	290
Grand Rapids, Mich.	53,421	6,143	185,000	3.5	23.4	331	74	405
Hartford, Conn. . .	35,307	6,109	170,000	4.8	16.5	179	18	197
Honolulu, T. H. . .	37,909⑤	6,660⑤	228,586⑤	6.0	600.0⑤	520	130	650
Houston, Texas . .	100,134	13,898	400,000	3.9	72.0	390	1,110	1,500
Indianapolis, Ind. .	105,241	17,794	400,000	3.8	53.6	665	242	907
Jacksonville, Fla. .	33,516	6,615	151,000	4.5	30.2	255	330	585
Jersey City, N. J. .	38,209	5,911	338,283	8.9	19.2	186	19	205
Kansas City, Kan. .	29,710	4,152	130,000	4.4	19.2	235	110	345
Kansas City, Mo. .	84,646	12,742	400,000	4.7	58.4	785	225	1,010
Knoxville, Tenn. .	21,199	3,481	131,000	6.2	25.3	320	355	675
Long Beach, Calif. .	56,707	4,747	170,000	3.0	30.6	204	263	467
Los Angeles, Calif. .	476,758	54,642	1,400,000	2.9	450.8	2,049	2,925	4,974
Louisville, Ky. . . .	59,279	8,749	310,000	5.2	37.9	411	209	620
Lowell, Mass. . . .	12,153	2,167	101,820	8.4	12.9	125	102	227
Lynn, Mass. . . . .	15,533	1,898	101,000	6.5	10.4	90	60	150
Memphis, Tenn. . .	42,310	6,857	289,000	6.8	45.6①	657	32	689
Miami, Fla. . . . .	53,078	7,873	150,000	2.8	30.3	545	166	711
Milwaukee, Wis. . .	127,761	15,180	625,000	4.9	29.6	669	150	819
Minneapolis, Minn. .	128,621	14,109	500,000	3.9	58.7	296	685	981
Nashville, Tenn.⑥	34,672	5,490	156,000	4.5	26.4	393	9	402

# ee Mileage, Population and Area, 1939

## 123 City-Owned Motor Vehicles per Mile of Street

### 27% of Vehicles and 30% of Population in These Cities

poration when reproducing Motor Vehicle registrations)

Cities Above 100,000 Population	Pass. Cars①	Trucks①	Popu- lation②	Pop. Per Pass.Car	Area Sq. Miles	Paved Street③ Mileage	Unpaved Street③ Mileage	Total Street③ Mileage
Newark, N. J. . . .	64,972	19,696	450,000	6.9	23.7	369	3	372
New Bedford, Mass. . . .	15,362	2,463	111,521	7.3	19.4	211	5	216
New Haven, Conn. . . .	29,388	6,405	162,000	5.5	17.8	166	53	219
New Orleans, La. . . .	61,676	11,004	512,000	8.3	199.4	485	622	1,107
New York, N. Y. . . .	762,647	118,093	7,649,000	10.0	319.9	3,496	1,998	5,494
Norfolk, Va. . . .	20,474	3,657	130,000	6.3	38.6	450	200	650
Oakland, Calif. . . .	91,037	9,577	314,000	3.4	52.8	564	132	696
Okla. City, Okla. . . .	52,573	9,402	235,000	4.5	25.3	310	400	710
Omaha, Neb. . . .	51,255	7,154	220,000	4.3	44.0	460	250	710
Paterson, N. J. . . .	28,150	4,771	145,000	5.2	8.4	140	67	207
Peoria, Ill. . . .	30,431	4,059	140,000	4.6	12.4	167	75	242
Philadelphia, Pa. . . .	253,273	39,547	2,000,000	7.9	128.0	2,018	26	2,044
Pittsburgh, Pa. . . .	108,819	19,200	694,223	6.4	54.0	920	440	1,360
Portland, Ore. . . .	91,725	11,739	337,183	3.7	63.5	849	245	1,094
Providence, R. I. . . .	57,443	8,850	243,000	4.2	17.9	333	89	422
Reading, Pa. . . .	23,479	3,635	150,000	6.4	9.5	139	32	171
Richmond, Va. . . .	38,100	8,351	188,471	4.9	24.0	367	36	403
Rochester, N. Y. . . .	91,244	8,846	340,000	3.7	34.3	459	67	526
Salt Lake City, Utah . . .	38,292	5,738	160,000	4.2	52.8	131	268	399
San Antonio, Tex. . . .	61,822	10,689	260,000	4.2	36.0	400	350	750
San Diego, Cal. . . .	48,690	5,356	180,320	3.7	95.3	568	106	674
San Francisco, Cal. . . .	153,755	23,282	776,260	5.0	45.2	720	180	900
Scranton, Pa. . . .	19,904	4,519	135,000	6.8	19.5	102	12	114
Seattle, Wash. . . .	105,537	12,755	365,000	3.5	68.5	780	277	1,057
Somerville, Mass. . . .	12,024	2,548	100,000	8.3	4.0	90	11	101
South Bend, Ind. . . .	27,698	3,759	104,193	3.8	20.1	202	116	318
Spokane, Wash. . . .	32,740	5,767	135,000	4.1	41.5	181	565	746
Springfield, Mass. . . .	30,901	3,957	155,000	5.0	32.5	234	11	245
St. Louis, Mo. . . .	159,031	26,277	840,964	5.3	61.3	957	93	1,050
St. Paul, Minn. . . .	73,224	9,644	304,825	4.2	52.2	252	429	681
Syracuse, N. Y. . . .	48,271	5,997	221,000	4.6	25.0	239	154	393
Tacoma, Wash. . . .	31,842	4,562	110,000	3.5	46.5	236	425	661
Tampa, Fla. . . .	27,989	5,399	110,000	3.9	19.0	311	150	461
Toledo, Ohio. . . .	77,553	7,766	330,000	4.3	37.0	477	122	599
Trenton, N. J. . . .	29,371	4,698	125,000	4.3	8.0	140	20	160
Tulsa, Okla. . . .	38,976	7,225	165,000	4.2	21.8	280	227	507
Utica, N. Y. . . .	19,548	3,019	101,740	5.2	16.2	146	28	174
Washington, D.C. . . .	148,688	16,096	627,000	4.2	60.0	750	114	864
Waterbury, Conn. . . .	18,466	2,808	106,500	5.8	29.0	53	167	220
Wichita, Kan. . . .	33,975	5,446	114,000	3.4	21.0	250	110	360
Wilmington, Del. . . .	24,714	3,938	110,000	4.5	15.8	135	10	145
Worcester, Mass. . . .	30,321	4,054	195,000	6.4	37.1	263	222	485
Yonkers, N. Y. . . .	23,841	2,594	151,610④	6.4	19.0	236	10	246
Youngstown, Ohio . . .	33,634	3,932	180,000	5.1	33.5	290	130	420

Total, 95 Cities 7,292,402 1,012,377 39,795,279 5.5 5,062.7 44,996 22,328 67,324

①—Total car and truck registrations by The Reuben H. Donnelley Corporation as of July 1, 1939.

②—Figures furnished by city engineers of all cities surveyed by Automobile Mfrs. Assoc., as of Jan. 1, 1940.

③—1938 Data.

④—As of July 1, 1939.

⑤—Data refers to entire Island of Oahu.

⑥—Figures for population, area, and street mileage are as of January 1, 1937.

# 395,000 Motor Vehicles Publicly Owned

(SOURCE: U. S. Public Roads Administration)

State	Total Publicly Owned Motor Vehicles ①	FEDERAL ② MOTOR VEHICLES			STATE, COUNTY, AND MUNICIPAL MOTOR VEHICLES ③		
		Pass- enger Cars	Trucks, Tractor Trucks, Etc.	Total Motor Vehicles	Pass- enger Cars	Trucks, Tractor Trucks, Etc.	Total Motor Vehicles
Alabama	6,270	401	1,659	2,060	.....	.....	4,210
Arizona	4,682	543	1,990	2,533	842	1,307	2,149
Arkansas	4,282	356	1,787	2,143	1,256	883	2,139
California	35,416	1,370	7,448	8,818	.....	.....	26,598
Colorado	2,397	385	2,042	2,397	.....	.....	.....
Connecticut	4,476	65	635	700	1,437	2,339	3,776
Delaware	1,117	16	356	372	243	502	745
Florida	7,258	366	1,495	1,851	1,631	3,576	5,407
Georgia	8,273	606	2,869	3,475	1,229	3,569	4,798
Idaho	3,594	206	1,707	1,913	595	1,086	1,681
Illinois	13,863	498	3,411	3,909	2,658	7,295	9,954
Indiana	8,751	194	1,943	2,137	1,873	4,741	6,614
Iowa	7,815	176	1,429	1,605	1,144	5,056	6,210
Kansas	1,508	252	1,256	1,508	.....	.....	.....
Kentucky	7,030	321	2,261	2,582	.....	.....	4,448
Louisiana	6,729	620	1,296	1,916	1,983	2,830	4,813
Maine	2,926	133	507	640	826	1,460	2,286
Maryland	5,031	432	2,376	2,808	.....	.....	2,223
Massachusetts	2,996	455	2,541	2,996	.....	.....	④
Michigan	3,305	347	2,958	3,305	.....	.....	.....
Minnesota	6,522	410	2,811	3,221	4,063	6,490	10,543
Mississippi	4,703	217	1,723	1,940	703	410	1,113
Missouri	4,852	365	2,241	2,606	590	1,656	2,246
Montana	5,008	488	2,091	2,579	.....	.....	2,429
Nebraska	4,559	274	964	1,238	715	2,605	3,321
Nevada	1,525	168	678	846	193	496	679
New Hampshire	661	34	627	661	.....	.....	.....
New Jersey	13,590	266	2,781	3,047	4,063	6,490	10,543
New Mexico	3,108	372	1,623	1,995	703	410	1,113
New York	33,555	920	5,395	6,315	8,500	18,740	27,240
North Carolina	14,335	435	1,775	2,210	.....	.....	12,125
North Dakota	1,660	185	721	906	238	516	754
Ohio	23,484	388	2,617	3,005	11,649	8,830	20,479
Oklahoma	9,701	558	2,066	2,644	.....	.....	7,057
Oregon	7,406	385	2,806	3,191	1,070	3,145	4,215
Pennsylvania	28,075	499	3,374	3,873	5,930	18,272	24,202
Rhode Island	2,001	92	473	565	502	934	1,436
South Carolina	6,607	250	1,819	2,069	.....	.....	4,538
South Dakota	2,626	247	1,163	1,410	404	812	1,216
Tennessee	10,026	481	1,970	2,451	.....	.....	7,575
Texas	23,623	1,293	4,937	6,230	6,895	10,498	17,393
Utah	3,064	285	1,725	2,010	548	506	1,054
Vermont	694	128	566	694	.....	.....	.....
Virginia	9,102	611	3,002	3,613	2,051	3,438	5,489
Washington	10,636	645	2,798	3,443	3,305	3,888	7,193
West Virginia	6,317	148	854	1,002	1,896	3,419	5,315
Wisconsin	10,515	300	2,566	2,866	1,419	6,230	7,649
Wyoming	2,106	201	1,139	1,340	516	450	766
District of Columbia	2,763	429	853	1,382	658	713	1,371
At Large	2,250	750	1,500	2,250	.....	.....	.....
Total	394,783	19,536	101,734	121,270	67,552	126,694	273,513

①—These totals do not include trailers, semi-trailers, and motorcycles.

②—Obtained by the Procurement Division, Dept. of Treasury, by means of a circular letter.

③—Some states give state-owned vehicles only; others exclude certain classes, such as fire apparatus and police vehicles. These totals include a small number of federal vehicles in Indiana, Kentucky, Louisiana, Montana, Nebraska, New York, Pennsylvania, and Virginia. Many federal agencies issue their own plates, and state registrations are generally issued to federal vehicles only upon application. For this reason, the duplication involved is negligible.

④—Approximately 7,500, but cannot be segregated by type from private and commercial vehicles.



# 71% of World's Passenger Cars Registered in U.S.

(SOURCE: Automotive-Aeronautics Trade Division, U. S. Department of Commerce)

Year	UNITED STATES①			OUTSIDE U. S.②			TOTAL			PERCENTAGE REGISTRATION	
	Units	% Change Yearly		Units	% Gain Yearly		Units	% Gain Yearly		U. S.	Outside U. S.
1922	10,862,650	.....		1,823,406	.....		12,686,056	.....		85.6	14.4
1923	13,479,608	+24.1		2,383,216	30.7		15,862,824	25.0		85.0	15.0
1924	15,460,649	+14.7		2,981,122	25.1		18,441,771	16.2		83.8	16.2
1925	17,496,420	+13.2		3,583,367	20.2		21,079,787	14.3		83.0	17.0
1926	19,237,171	+9.9		4,340,190	21.1		23,577,361	11.8		81.6	18.4
1927	20,219,224	+5.1		5,007,826	15.4		25,227,050	6.9		80.1	19.9
1928	21,379,125	+5.7		5,809,583	16.0		27,188,708	7.8		78.6	21.4
1929	23,121,589	+8.1		6,578,737	13.2		29,700,326	9.2		77.8	22.2
1930	23,059,262	-0.3		7,057,705	7.3		30,116,967	1.4		76.6	23.4
1931	22,366,313	-3.0		7,133,906	1.1		29,500,219	-2.1		75.8	24.2
1932	20,885,814	-6.6		7,088,166	-0.7		27,973,980	-5.2		74.7	25.3
1933	20,643,564	-1.2		7,315,078	3.2		27,958,642	-0.1		73.8	26.2
1934	21,532,408	+4.3		7,748,389	5.9		29,280,797	4.7		73.5	26.5
1935	22,562,847	+4.8		8,559,442	10.5		31,122,289	6.3		72.5	27.5
1936	24,178,211	+7.2		9,070,591	5.9		33,248,802	6.8		72.7	27.3
1937	25,449,924	+5.2		9,752,742	7.5		35,202,666	5.9		72.3	27.7
1938	25,261,649	-0.8		10,427,705	6.9		35,689,354	1.4		70.8	29.2
1939	26,201,395	+3.7		10,674,275	2.4		36,875,670	3.3		71.1	28.9

①—Excludes publicly-owned vehicles but includes buses.

②—Includes publicly-owned passenger cars and buses.

# 54% of World's Truck Registrations in U. S.

Year	UNITED STATES①			OUTSIDE U. S.②			TOTAL			PERCENTAGE REGISTRATION	
	Units	% Change Yearly		Units	% Gain Yearly		Units	% Gain Yearly		U. S.	Outside U. S.
1922	1,375,725	.....		431,379	.....		1,807,104	.....		76.1	23.9
1923	1,612,569	+17.2		548,191	27.1		2,160,760	19.6		74.6	25.4
1924	2,134,724	+32.4		734,613	34.0		2,869,337	32.8		74.4	25.6
1925	2,440,854	+14.3		1,008,360	37.3		3,449,214	20.2		70.8	29.2
1926	2,764,222	+13.2		1,172,743	16.3		3,936,965	14.1		70.2	29.8
1927	2,914,019	+5.4		1,417,291	20.8		4,331,310	10.0		67.3	32.7
1928	3,113,999	+6.9		1,595,068	12.5		4,709,067	8.7		66.1	33.9
1929	3,379,854	+8.5		1,895,211	18.8		5,275,065	12.0		64.1	35.9
1930	3,486,019	+3.1		2,050,529	8.2		5,536,548	4.9		63.0	37.0
1931	3,466,571	-0.6		2,143,138	4.5		5,609,709	1.3		61.8	38.2
1932	3,229,315	-6.9		2,163,109	0.9		5,392,424	-3.9		60.0	40.0
1933	3,230,668	.....		2,189,954	1.2		5,420,622	0.5		60.0	40.0
1934	3,419,254	+5.8		2,443,132	11.6		5,862,386	8.1		58.3	41.7
1935	3,664,429	+7.2		2,513,096	2.9		6,177,525	5.4		59.3	40.7
1936	3,987,339	+8.8		2,969,017	18.1		6,956,356	12.6		57.3	42.7
1937	4,255,296	+6.7		3,284,596	10.6		7,539,892	8.4		56.4	43.6
1938	4,224,031	-0.7		3,539,314	7.7		7,763,345	3.0		54.4	45.6
1939	4,413,692	+4.5		3,738,266	5.6		8,151,958	5.0		54.1	45.9

①—Excludes publicly-owned vehicles.

②—Includes Diesel trucks and publicly-owned trucks.

# 45,027,000 Motor Vehicles In V

(SOURCE: Automotive-Aeronautics Trade Division, U.

68% of Total in United States

Country	Passenger Cars	Buses	Trucks	Diesel Units	Total	Population	Persons Per Auto- mobile
Aegean Islands .....	250	50	150	....	450	140,848	313
Afghanistan .....	400	....	2,000	....	2,400	12,000,000	5,000
Albania .....	404	114	1,290	....	1,808	1,003,124	555
Algeria .....	31,000	1,100	3,400	....	35,500	7,234,684	204
Anglo Egyptian Sudan .....	2,170	2,680	....	....	4,850	6,186,847	1,276
Angola .....	1,370	60	2,490	....	3,920	3,484,300	889
Antigua .....	249	6	58	1	314	34,523	110
Arabia .....	2,016	481	651	19	3,167	7,000,000	2,210
Argentina .....	194,500	10,000	66,950	2,050	273,500	12,762,000	47
Australia .....	605,688	2,400	229,076	....	837,164	6,929,691	8
Azores .....	767	100	46	....	913	253,935	278
Bahamas .....	1,328	5	280	....	1,613	66,908	41
Bahrain .....	316	80	71	....	467	120,000	287
Barbados .....	2,171	114	469	....	2,754	190,339	69
Belgian Congo .....	3,505	....	3,765	70	7,340	13,829,293	1,884
Belgium .....	191,917	1,380	70,733	1,410	225,440	8,386,553	37
Bermuda .....	2	7	58	1	68	30,951	455
Bolivia .....	1,097	34	833	19	1,983	3,426,296	1,728
Borneo, British North .....	305	....	247	....	552	299,311	542
Brazil .....	113,000	4,440	63,000	560	181,000	43,246,931	239
British East Africa:							
Kenya .....	8,780	220	2,723	....	11,723	3,334,191	284
Tanganyika .....	2,968	....	1,504	80	4,552	5,182,605	1,139
Uganda .....	2,477	146	2,331	....	4,954	3,711,494	375
Zanzibar .....	335	270	45	1	651	244,000	211
British Guiana .....	1,270	125	230	1	1,626	337,039	207
British Honduras .....	150	....	199	....	349	56,893	163
British Malaya .....	32,873	2,224	9,841	123	45,061	5,173,380	115
British Somaliland .....	50	250	....	....	300	344,700	1,149
British South Africa:							
Basutoland .....	563	....	154	....	717	562,311	784
Bechuanaland .....	439	....	205	....	644	285,756	413
Northern Rhodesia .....	4,464	....	2,146	....	6,610	1,376,325	208
Southern Rhodesia .....	17,590	66	7,866	230	25,752	1,375,540	53
Swaziland .....	435	....	125	....	560	156,715	280
British West Africa:							
Gambia .....	162	....	215	....	377	199,520	529
Gold Coast .....	2,068	19	4,583	69	6,739	3,700,267	549
Nigeria .....	4,234	4	3,514	62	7,814	20,476,795	2,621
Sierra Leone .....	425	12	228	....	665	1,672,057	2,514
Bulgaria .....	2,314	573	1,693	231	4,811	6,171,300	1,283
Burma .....	11,564	3,120	3,183	184	18,051	14,667,146	813
Canada .....	1,182,560	2,605	235,471	288	1,420,924	11,209,000	8
Cayman Islands .....	3,899	609	1,668	42	6,218	632,275	102
Ceylon .....	61	5	11	....	77	6,700	87
Chile .....	21,014	2,470	4,147	365	27,996	5,712,000	204
China .....	32,915	1,781	13,803	455	48,954	4,626,508	95
China .....	23,893	3,616	34,833	....	62,342	422,527,000	6,288
Chosen .....	2,250	2,500	3,500	....	8,250	22,899,038	2,776
Colombia .....	18,554	3,000	11,550	39	33,143	8,390,950	253
Cook Islands .....	58	1	43	....	102	18,000	176
Costa Rica .....	2,379	439	1,097	79	3,994	616,000	154
Cuba .....	27,679	2,973	14,560	....	45,212	4,108,680	91
Cyprus .....	2,299	....	....	....	2,299	372,810	162
Czechoslovakia .....	54,688	1,663	16,397	420	73,168	9,807,000	134



# In World Set New Registration Record

(vision, U. S. Department of Commerce, as of January 1, 1940)

## 1939 Gains 4% Over Previous Year

Country	Passenger Cars	Buses	Trucks	Diesel Units	Total	Population	Persons per Auto-mobile
Danish	2,741	59	924	....	3,724	407,517	109
Denmark	118,350	1,742	44,126	132	164,350	3,777,000	23
Dominica	67	....	25	1	93	46,298	498
Dominican Republic	1,750	....	900	....	2,650	1,581,248	597
Ecuador	1,656	356	1,519	71	3,602	2,756,552	765
Egypt	29,473	1,325	2,989	....	33,787	15,904,525	471
Estonia	3,662	222	2,550	115	6,549	1,134,000	173
Faroe Islands	19	....	72	....	91	25,744	1,355
Fiji Islands	1,227	255	572	23	2,077	205,397	99
Finland	5,138	....	2,830	....	7,968	3,834,662	481
France	1,885,000	40,000	455,000	18,500	2,398,500	41,907,056	17
French Cameroon	871	....	2,022	....	2,893	2,609,508	902
French Equatorial Africa	1,000	....	1,400	....	2,400	3,418,066	1,424
French Guiana	317	6	123	....	446	37,005	83
French Indo-China	18,045	....	4,866	100	23,011	23,853,429	1,037
French Oceania	585	38	73	11	707	39,920	56
French Somaliland	500	4	500	....	1,004	44,240	44
French West Africa	6,161	....	9,642	....	15,803	14,674,830	926
Germany	1,515,000	14,500	360,000	69,700	1,959,200	79,600,000	41
Gibraltar	979	37	314	....	1,330	21,372	16
Greece	7,000	2,425	5,750	325	15,500	7,196,900	464
Grenada	397	....	110	....	507	86,201	174
Guadeloupe	1,775	70	405	....	2,250	304,239	135
Guam	206	4	207	1	418	20,899	50
Guatemala	2,539	628	960	114	4,241	3,044,490	718
Haiti	1,837	....	752	....	2,589	3,195,000	1,234
Honduras	665	14	692	....	1,371	1,000,000	729
Hong Kong	4,823	50	1,201	191	6,265	1,006,982	160
Hungary	19,500	700	5,000	....	25,200	10,662,667	423
Iceland	835	120	1,120	....	2,075	117,692	44
India	74,800	21,996	16,583	1,598	114,977	352,837,778	3,068
Iran	3,772	370	7,300	180	11,622	15,055,115	1,295
Iraq	4,525	....	2,600	....	7,125	4,412,959	619
Ireland	56,000	510	10,200	400	67,110	2,944,000	44
Italian East Africa	7,500	....	22,500	....	30,000	9,331,776	311
Italy	375,000	6,300	73,450	43,750	498,500	44,026,000	88
Jamaica	8,796	140	2,675	18	11,629	1,138,558	98
Japan	106,000	29,800	50,000	120	185,920	72,222,700	388
Kwangtung Leased Territory	760	280	710	45	1,795	1,656,726	923
Latvia	3,824	278	3,071	92	7,265	1,950,502	268
Liberia	75	....	50	....	125	1,500,000	12,000
Libya	1,230	45	230	....	1,505	717,000	476
Lithuania	2,026	90	450	550	3,116	2,427,794	779
Luxemburg	7,045	190	3,434	82	10,751	301,000	28
Macao—Portuguese Colony	287	59	90	17	453	157,805	348
Madagascar	6,000	....	3,500	....	9,500	3,797,936	400
Madeira	801	138	290	2	1,231	215,000	175
Maltese Islands	3,664	601	908	1	5,174	264,663	51
Manchukuo	3,000	4,000	6,000	350	13,350	35,338,000	2,647
Martinique	2,320	100	555	....	2,975	246,712	83
Mauritius	2,326	135	400	56	2,917	415,462	145
Mexico	80,000	6,450	19,020	....	105,470	19,806,976	188
Monaco	1,802	81	203	....	2,086	23,956	12
Montserrat	61	22	....	....	83	14,000	169
Morocco, French	27,750	1,285	8,500	215	37,750	6,296,528	167

# 45,027,000 Motor Vehicles In World (Continued)

Country	Passenger Cars	Buses	Trucks	Diesel Units	Total	Population	Persons per Auto-mobile
Morocco, Tangier Zone	572	20	95	.....	687	60,000	87
Morocco, Spanish	.....	.....	.....	.....	.....	795,202	.....
Netherlands	98,000	3,200	52,000	2,950	156,150	8,728,569	56
Netherlands Guiana (Surinam)	101	2	30	2	135	175,589	1,301
Netherlands Indies	53,000	8,600	13,150	265	75,015	60,727,233	809
Netherlands West Indies	3,699	578	995	.....	5,272	90,870	38
New Caledonia	965	17	134	.....	1,116	63,929	57
Newfoundland	4,200	79	1,180	.....	5,459	290,500	53
New Guinea	375	.....	225	.....	600	755,882	1,260
New Hebrides	39	.....	33	.....	72	45,000	6
New Zealand	219,376	1,075	55,523	171	276,145	1,624,714	1,408
Nicaragua	576	21	203	5	805	1,133,572	228
Niue Island	7	.....	11	.....	18	4,104	29
Norway	61,126	3,533	35,118	.....	99,777	2,907,000	988
Nyasaland	949	11	656	39	1,655	1,635,804	102
Palestine	8,216	1,271	4,449	.....	13,936	1,418,618	44
Panama & Canal Zone	10,736	589	756	.....	12,081	577,172	550
Papua	325	.....	175	.....	500	936,126	435
Paraguay	1,100	150	900	.....	2,150	6,600,000	297
Peru	13,096	1,222	7,568	330	22,216	15,984,247	298
Philippine Islands	32,918	4,278	16,352	94	44,320	35,090,000	142
Poland	32,000	2,000	10,000	320	43,320	4,006,000	722
Portugal	35,800	1,590	11,500	430	48,920	390,400	4,547
Portuguese East Africa	4,323	322	2,244	168	7,057	208,858	681
Portuguese Guinea	155	.....	386	.....	541	67,404	116
Portuguese Timor	67	.....	35	.....	102	4,695	198
Reunion	1,100	.....	400	.....	1,500	57,526	489
Rumania	20,000	3,500	5,500	.....	29,000	10,561	182
St. Kitts-Nevis	259	15	53	.....	327	59,306	201
St. Lucia	176	46	.....	.....	222	31,486	1,710
St. Pierre & Miquelon	38	.....	64	.....	102	212,187	342
St. Vincent	224	.....	67	.....	291	2,700	1,390
Salvador, El	2,513	326	393	175	3,407	6,284,722	28
Samoa, American	21	19	18	.....	58	4,200,000	55
Samoa, Western	197	24	76	.....	297	3,216,567	277
Seychelles	140	2	25	.....	167	5,212,426	1,303
Solomon Islands (British)	3	.....	52	.....	55	15,266,000	1,265
Southwest Africa	3,431	9	1,751	65	5,256	762,629	1,387
Spain	70,000	.....	.....	.....	70,000	32,861	276
Spitzbergen	1	.....	1	.....	2	325,000	526
Sweden	157,809	4,505	56,853	2,500	221,667	464,889	48
Switzerland	58,500	700	15,350	1,850	76,400	2,608,313	127
Syria	8,950	550	2,094	.....	11,594	16,428,449	1,286
Taiwan (Formosa)	1,390	1,368	1,242	.....	4,000	5,600	233
Thailand (Siam)	6,000	770	5,150	145	12,065	10,160,000	27
Togo (French)	150	.....	400	.....	550	46,688,806	19
Tonga	63	.....	45	.....	108	2,093,331	32
Trans-Jordan	310	18	290	.....	618	3,451,677	105
Trinidad & Tobago	6,311	.....	3,405	4	9,721	15,630,000	47
Tunisia	17,052	187	3,205	172	20,616	131,000,000	4
Turkey	4,611	708	7,326	227	12,872	75,000	18
Turks & Caicos Islands	20	.....	4	.....	24	384,437	6
Union of South Africa	318,622	1,343	49,995	675	370,641	1,723,534	77
United Kingdom	1,847,000	86,709	481,871	14,000	2,429,580	22,012	27
U. S. S. R.	102,000	.....	699,000	.....	801,000	.....	.....
Uruguay	47,689	1,462	15,015	600	64,766	.....	.....
Venezuela	17,635	1,538	13,841	10	33,024	.....	.....
Yugoslavia	15,768	505	1,673	3,927	21,873	.....	.....
Total, outside U. S.	10,279,057	320,029	3,541,673	172,683	14,313,442	1,987,400,541	139
United States	26,086,705	138,250	4,390,132	.....	30,615,087	131,000,000	4
Alaska	2,668	.....	1,488	.....	4,156	75,000	18
Hawaiian Islands	53,965	668	12,134	.....	66,767	384,437	6
Puerto Rico	17,000	.....	5,500	.....	22,500	1,723,534	77
Virgin Islands	557	11	257	.....	825	22,012	27
World Total	36,439,952	458,958	7,951,184	172,683	45,027,777	2,120,605,524	47

# Retail Sales of New Motor Vehicles in U. S.

(Compiled by the Automobile Manufacturers Association)

## Passenger Cars

	1931	1932	1933	1934	1935	1936	1937	1938	1939
January.....	119,290	76,667	81,937	63,118	150,840	199,419	251,387	126,442	180,692
February.....	138,762	80,420	72,004	116,902	196,320	178,375	218,381	120,254	165,865
March.....	206,715	86,860	86,732	195,117	299,761	338,729	411,589	188,325	276,364
April.....	280,154	128,463	130,399	232,118	333,319	393,435	390,744	193,392	265,992
May.....	247,427	139,634	168,512	216,177	285,401	397,290	410,348	187,526	276,719
June.....	204,500	157,148	193,180	237,171	295,703	389,215	367,456	156,029	254,604
July.....	183,748	90,525	178,121	214,558	261,717	340,308	349,387	153,426	229,873
August.....	152,398	95,564	182,595	184,824	236,415	266,783	312,451	123,711	166,172
September...	115,712	81,905	152,186	147,233	141,985	199,614	194,703	90,629	139,222
October.....	95,600	59,580	131,241	136,588	145,676	157,586	213,963	134,984	236,584
November...	72,390	45,412	95,542	106,971	265,090	295,857	213,762	241,009	257,398
December...	86,646	53,542	53,146	77,070	254,555	357,247	173,610	241,623	274,233
Year.....	1,903,342	1,095,720	1,525,595	1,927,847	2,666,782	3,513,858	3,507,781	1,957,350	2,723,718

## Commercial Cars and Trucks

	1931	1932	1933	1934	1935	1936	1937	1938	1939
January.....	22,635	12,925	12,336	27,015	41,058	46,274	48,086	32,391	37,186
February.....	23,614	15,088	9,566	26,965	39,891	44,235	47,165	29,782	35,781
March.....	31,643	16,883	11,176	37,493	47,143	62,121	73,513	39,710	54,516
April.....	41,131	18,858	18,600	41,865	53,301	65,951	72,812	35,619	45,488
May.....	34,407	19,568	23,634	40,326	62,661	66,548	65,471	46,474	46,474
June.....	31,190	19,492	33,251	39,504	49,663	62,489	64,759	33,910	47,307
July.....	29,427	13,334	28,876	38,148	49,128	62,129	61,118	36,620	50,959
August.....	29,982	15,405	30,816	45,859	54,800	64,590	63,535	33,924	44,132
September...	27,892	17,906	29,558	38,448	40,460	56,569	53,407	25,776	30,234
October.....	25,247	18,155	27,536	39,889	39,255	33,444	31,617	17,327	41,280
November...	16,164	10,745	18,459	28,780	45,933	37,213	28,794	30,673	45,806
December...	14,602	11,051	17,276	26,453	42,510	51,498	33,574	36,178	41,397
Year.....	327,934	189,410	261,064	430,745	552,246	649,174	644,928	387,381	520,560

## Total Cars and Trucks

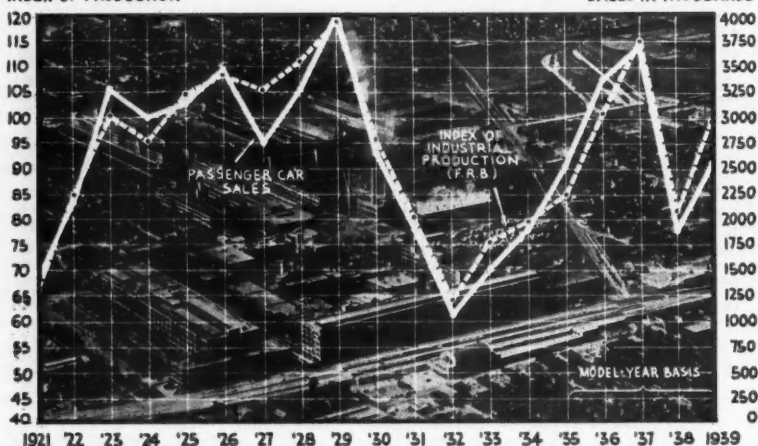
	1931	1932	1933	1934	1935	1936	1937	1938	1939
January.....	141,925	89,592	94,273	90,133	191,898	245,693	299,473	158,833	217,878
February.....	162,376	95,508	81,570	143,867	236,211	222,610	265,546	150,036	201,646
March.....	238,358	103,743	97,908	232,610	346,904	400,850	485,102	228,035	330,880
April.....	321,285	147,321	148,999	273,983	386,620	459,386	463,556	229,011	311,480
May.....	281,834	159,202	192,145	256,503	334,505	459,951	476,896	222,997	323,193
June.....	235,690	176,640	226,431	276,675	345,366	451,704	432,215	189,939	301,911
July.....	213,175	103,859	206,997	252,706	310,845	402,437	410,505	190,046	280,832
August.....	182,380	110,969	213,411	230,683	291,215	331,373	375,986	157,635	210,304
September...	143,604	99,811	181,744	185,681	182,445	256,183	248,110	116,405	169,456
October.....	120,847	77,735	158,777	176,477	184,931	191,030	245,580	152,311	277,864
November...	85,554	56,157	114,001	135,751	311,023	333,070	242,556	271,682	303,204
December...	101,248	64,993	70,422	103,523	297,065	408,745	207,184	277,801	315,630
Year.....	2,231,276	1,285,130	1,786,679	2,398,592	3,419,028	4,163,032	4,152,709	2,344,731	3,244,278

NOTE—Passenger car figures include taxicabs; truck figures include buses, station wagons, funeral cars and special purpose vehicles.

# Retail Sales Follow U. S. Industrial Production

INDEX OF PRODUCTION

SALES IN THOUSANDS



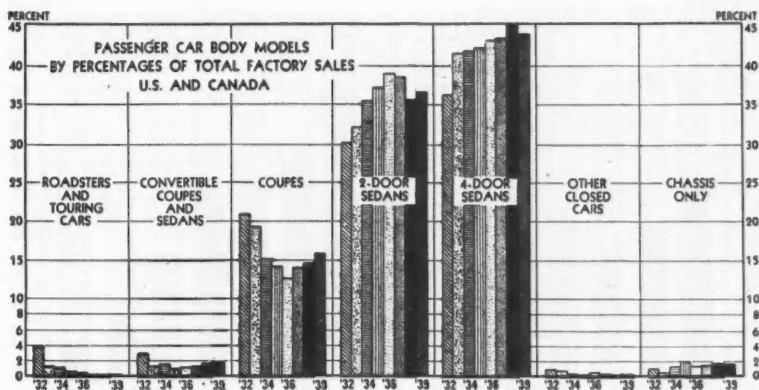
SOURCE: Retail sales of new passenger cars in United States compiled by Automobile Manufacturers Association since 1930. Prior to January 1930 estimates were made based on registrations of new passenger cars and factory sales to domestic market. Industrial Production Index: Federal Reserve Board.

## U. S. Factory Sales to Domestic and Foreign Markets

"Domestic market" represents sales to distributors and dealers in the United States, and "foreign market" includes exports from U. S. factories plus number of vehicles assembled abroad from parts produced in U. S. plants. Canadian production is not included.

	PASSENGER CARS			MOTOR TRUCKS			TOTAL MOTOR VEHICLES		
	Total	Domestic Market	Foreign Market	Total	Domestic Market	Foreign Market	Total	Domestic Market	Foreign Market
1921..	1,468,067	1,417,017	51,050	148,052	135,483	12,569	1,616,119	1,552,500	63,619
1922..	2,274,185	2,169,185	105,000	269,991	247,593	22,398	2,544,176	2,416,778	127,398
1923..	3,624,717	3,449,658	175,059	409,295	349,077	60,218	4,034,012	3,798,735	235,277
1924..	3,185,881	2,968,711	217,170	416,659	340,555	76,104	3,602,540	3,309,266	293,274
1925..	3,735,171	3,419,072	316,099	530,659	418,064	112,595	4,265,830	3,837,136	428,694
1926..	3,783,987	3,494,791	289,196	516,947	413,080	103,867	4,300,934	3,907,871	393,063
1927..	2,936,533	2,604,491	332,042	464,793	330,455	134,338	3,401,326	2,934,946	466,380
1928..	3,815,417	3,396,516	418,901	543,342	379,530	163,812	4,358,759	3,776,046	582,713
1929..	4,587,400	4,136,305	451,095	771,020	498,353	282,667	5,358,420	4,624,658	733,762
1930..	2,784,745	2,536,981	247,764	571,241	413,290	157,951	3,355,986	2,950,271	405,715
1931..	1,973,090	1,838,786	134,304	416,648	309,029	107,619	2,389,738	2,147,815	241,923
1932..	1,135,491	1,062,376	73,115	235,187	187,837	47,350	1,370,678	1,250,213	120,465
1933..	1,573,512	1,478,387	95,125	346,545	268,117	78,428	1,920,057	1,743,474	176,583
1934..	2,177,919	1,993,763	184,156	575,192	446,826	128,366	2,753,111	2,440,589	312,522
1935..	3,252,244	3,041,877	210,367	694,690	570,216	124,474	3,946,934	3,612,093	334,841
1936..	3,669,528	3,458,051	211,477	784,587	649,997	134,590	4,454,115	4,108,048	346,067
1937..	3,915,889	3,643,386	272,503	893,085	689,674	203,411	4,808,974	4,333,060	475,914
1938..	2,000,985	1,810,939	190,047	488,100	352,207	135,893	2,489,085	2,163,145	325,940
1939..	2,866,796	2,702,161	164,635	710,496	558,973	151,523	3,577,292	3,261,154	316,138

# Four-Door Sedans Continue to Be Most Popular

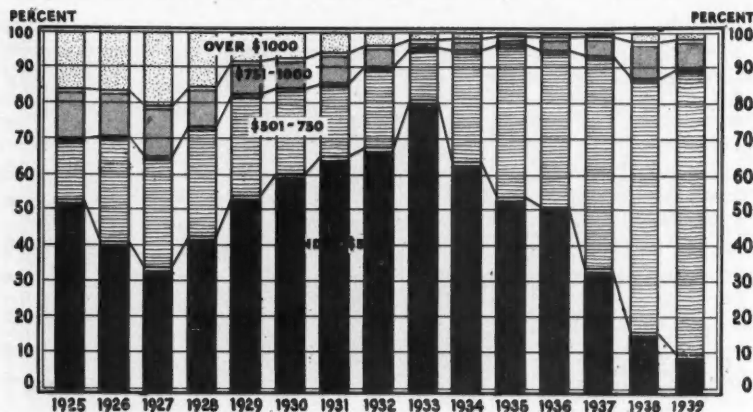


**Passenger Car Factory Sales by Body Types  
United States and Canada**

	1934		1935		1936	
	Number	%	Number	%	Number	%
Roadster.....	13,013	.57	8,556	.25	7,778	.24
Touring.....	14,679	.65	8,587	.25	4,949	.13
Convertible Coupe.....	35,885	1.58	35,027	1.04	38,139	1.00
Convertible Sedan.....	3,020	.13	6,890	.20	12,887	.33
Coupe.....	361,800	15.93	504,491	14.89	488,810	12.87
2-Door Sedan.....	830,593	36.58	1,299,325	38.35	1,509,654	39.75
4-Door Sedan.....	962,191	42.38	1,448,577	42.76	1,662,125	43.76
All other closed cars....	5,902	.26	4,214	.13	13,981	.36
Chassis.....	43,483	1.92	72,139	2.13	59,574	1.56
Total.....	2,270,566	100%	3,387,806	100%	3,797,897	100%

	1937		1938		1939	
	Number	%	Number	%	Number	%
Roadster.....	1,134	.03	591	.03	296	.01
Touring.....	3,743	.09	1,260	.06	459	.02
Convertible Coupe.....	45,052	1.11	30,017	1.42	51,709	1.74
Convertible Sedan.....	14,341	.35	7,765	.37	7,418	.25
Coupe.....	578,327	14.21	314,675	14.81	472,911	15.90
2-Door Sedan.....	1,562,014	38.39	759,135	35.72	1,092,310	36.71
4-Door Sedan.....	1,787,457	43.93	964,462	45.39	1,302,944	43.79
All other closed cars....	11,500	.28	4,480	.21	4,501	.15
Chassis.....	65,367	1.61	42,361	1.99	42,617	1.43
Total.....	4,068,935	100%	2,124,746	100%	2,975,165	100%

# 90% of New Cars Sell Under \$750 Wholesale



## Factory Sales by Wholesale Price Classes United States and Canada

	Under \$500	\$501- 750	\$751- 1000	\$1001- 1500	\$1501- 2000	\$2001- 3000	Over \$3000	Total
1926 .....	1,633,775	1,149,301	500,508	476,675	94,915	73,738	19,931	3,949,843
Percent .....	41.4	29.1	12.7	12.1	2.4	1.8	.5	100%
1927 .....	1,039,216	957,987	446,663	466,902	107,425	50,064	15,103	3,083,360
Percent .....	33.7	31.1	14.5	15.2	3.5	1.6	.4	100%
1928 .....	1,698,603	1,219,266	462,452	456,117	108,448	55,304	11,968	4,012,158
Percent .....	42.3	30.4	11.5	11.4	2.7	1.4	.3	100%
1929 .....	2,585,414	1,317,116	387,835	347,340	98,086	47,587	11,520	4,794,898
Percent .....	53.9	27.5	8.1	7.3	2.0	1.0	.2	100%
1930 .....	1,754,747	680,352	204,490	179,180	55,351	27,266	8,841	2,910,187
Percent .....	60.3	23.4	7.1	6.2	1.9	.9	.2	100%
1931 .....	1,328,294	413,929	162,954	80,687	33,846	12,714	5,799	2,038,183
Percent .....	65.2	20.3	8.0	3.9	1.7	.6	.3	100%
1932 .....	794,164	260,831	74,610	36,670	8,699	8,679	2,532	1,186,185
Percent .....	67.0	22.0	6.3	3.1	.7	.7	.2	100%
1933 .....	1,316,341	237,099	32,610	20,125	10,409	8,725	2,052	1,627,361
Percent .....	80.9	14.6	2.0	1.25	.65	.5	.1	100%
1934 .....	1,443,357	715,989	66,223	27,576	8,391	6,879	2,151	2,270,566
Percent .....	63.5	31.6	2.9	1.2	.4	.3	.1	100%
1935 .....	1,787,171	1,444,529	110,813	28,736	8,716	5,413	2,428	3,387,806
Percent .....	52.7	42.6	3.3	.9	.27	.16	.07	100%
1936 .....	1,919,618	1,677,558	143,269	39,997	11,545	4,326	1,584	3,797,897
Percent .....	50.6	44.2	3.7	1.05	.30	.11	.04	100
1937 .....	1,368,018	2,392,415	260,280	31,226	11,633	4,061	1,302	4,068,935
Percent .....	33.6	58.8	6.4	.8	.28	.09	.03	100%
1938 .....	329,858	1,521,404	224,839	42,160	3,661	2,161	663	2,124,746
Percent .....	15.5	71.6	10.6	2.0	.17	.10	.03	100%
1939 .....	285,217	2,380,466	253,931	49,033	4,304	1,870	344	2,975,165
Percent .....	9.6	80.0	8.54	1.65	.14	.06	.01	10.7%

# 41,200 Passenger Car and Truck Dealers In U.S.

(SOURCE: Chilton Company, as of March 1, 1940)

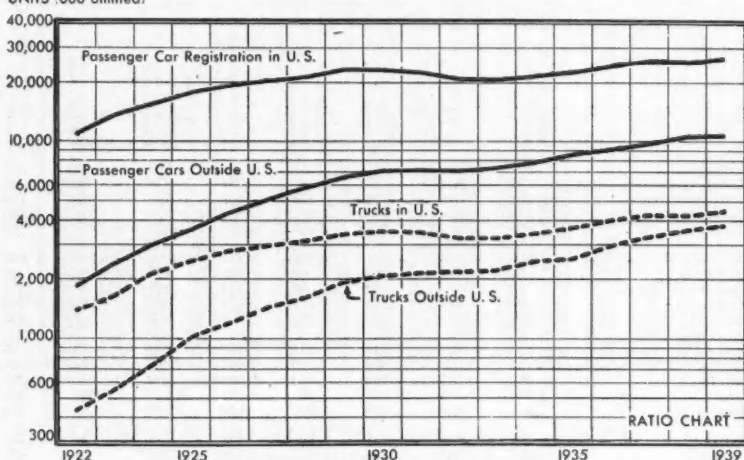
	Total Car and Truck Dealers	Total Pass. Car Dealers	Total Truck Dealers	Car Dealer Service Stations	Independent Repair Shops	Total Repair Outlets (Duplication Eliminated)	No. of Wholesalers	No. of Truck Fleets*
Alabama.....	362	345	231	313	250	689	77	219
Arizona.....	159	150	86	143	151	339	32	82
Arkansas.....	399	388	265	376	419	748	83	124
California.....	2,046	1,944	1,272	1,771	5,163	7,628	505	1,586
Colorado.....	498	462	317	446	499	1,058	70	254
Connecticut.....	600	579	341	575	771	1,500	102	524
Delaware.....	68	64	43	61	107	185	13	91
District of Columbia.....	76	74	34	68	138	241	28	212
Florida.....	491	464	282	451	514	1,065	111	406
Georgia.....	530	513	362	470	313	895	94	330
Idaho.....	339	318	231	309	185	542	26	39
Illinois.....	2,460	2,366	1,499	2,280	2,845	5,557	393	1,840
Indiana.....	1,241	1,211	698	1,124	1,280	2,488	195	781
Iowa.....	1,574	1,473	1,027	1,382	1,321	3,032	163	361
Kansas.....	1,031	986	679	951	935	1,995	133	285
Kentucky.....	636	610	419	582	446	1,178	100	276
Louisiana.....	361	344	234	325	294	706	69	431
Maine.....	398	383	231	354	462	863	48	122
Maryland.....	446	437	194	425	514	1,044	80	432
Massachusetts.....	1,166	1,345	497	1,079	1,234	2,573	227	1,329
Michigan.....	1,770	1,695	1,159	1,657	1,776	3,883	239	1,249
Minnesota.....	1,509	1,460	797	1,375	1,610	3,293	113	510
Mississippi.....	391	363	265	342	180	581	67	72
Missouri.....	1,008	971	697	928	1,451	2,661	186	761
Montana.....	420	376	298	380	277	718	43	98
Nebraska.....	780	742	529	725	844	1,680	97	185
Nevada.....	122	118	89	116	99	241	10	25
New Hampshire.....	273	257	153	245	273	544	25	81
New Jersey.....	1,098	1,045	529	1,016	1,791	3,041	178	1,153
New Mexico.....	188	176	124	142	139	342	26	38
New York.....	2,966	2,783	1,671	2,724	5,246	8,724	539	2,612
North Carolina.....	656	631	356	644	530	1,271	111	315
North Dakota.....	524	499	349	464	489	1,074	30	49
Ohio.....	2,333	2,181	1,230	2,074	2,265	4,885	375	1,496
Oklahoma.....	813	751	527	752	873	1,885	127	283
Oregon.....	461	440	299	415	849	1,373	76	222
Pennsylvania.....	3,225	3,016	1,904	3,047	3,948	7,572	413	2,160
Rhode Island.....	164	161	73	154	255	443	31	242
South Carolina.....	381	368	207	340	222	554	53	183
South Dakota.....	463	436	329	412	363	856	32	55
Tennessee.....	418	390	276	398	409	924	102	360
Texas.....	2,138	1,935	1,386	1,915	2,827	4,998	337	902
Utah.....	179	175	137	155	219	449	41	128
Vermont.....	218	206	159	189	355	566	25	43
Virginia.....	662	645	244	618	724	1,429	80	350
Washington.....	750	694	476	669	1,222	2,102	131	416
West Virginia.....	496	466	308	458	371	904	78	270
Wisconsin.....	1,714	1,636	1,199	1,582	1,482	3,376	137	611
Wyoming.....	198	186	149	197	141	380	17	48
Total.....	41,201	39,258	24,861	37,618	49,091	95,075	6,268	24,621

\*Number of truck fleets of 8 or more trucks each.



# Growth In Registrations Outside U. S.

UNITS ('000 omitted)



## Value of Exports from United States

SOURCE: Automotive-Aeronautics Trade Division, U. S. Department of Commerce

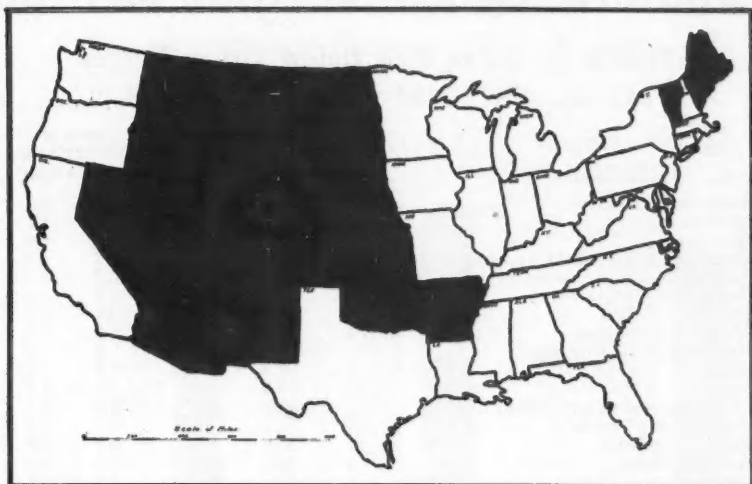
	Passenger Cars	Trucks	Cars and Trucks	Parts and Accessories①	Rubber Tires and Tubes	Total Value of Exports①
1913 .....	\$25,673,570	\$1,737,141*	\$27,410,711	\$8,079,338	\$4,509,293	\$39,999,342
1914 .....	26,760,388	1,181,611*	27,941,999	6,907,701	3,767,998	38,617,698
1915 .....	23,328,532	39,140,682*	62,469,214	19,268,176	13,411,914	95,149,304
1916 .....	43,417,474	56,805,548*	100,223,022	26,808,001	17,729,008	144,760,031
1917 .....	51,912,746	42,343,502*	94,256,248	36,441,526	16,140,493	146,838,267
1918 .....	38,099,304	26,814,952*	64,914,256	36,408,078	15,267,509	118,589,843
1919 .....	76,072,811	36,217,095*	112,289,906	47,986,522	30,481,896	190,756,314
1920 .....	170,439,714	48,578,717	219,018,431	92,520,883	53,074,015	364,613,329
1921 .....	35,097,896	10,887,832	45,985,728	41,728,167	16,313,414	104,027,309
1922 .....	53,574,661	9,182,870	62,757,531	44,564,868	20,702,982	128,025,381
1923 .....	95,338,707	16,447,662	111,786,369	71,122,609	20,320,708	203,229,686
1924 .....	118,279,221	20,497,053	138,776,274	79,611,981	22,417,000	240,805,255
1925 .....	190,855,961	39,291,105	230,147,066	98,078,545	30,808,000	358,730,611
1926 .....	182,094,181	48,674,301	230,768,482	99,316,776	35,236,432	365,321,690
1927 .....	214,275,617	72,029,247	286,304,864	112,619,968	44,579,258	443,504,090
1928 .....	269,394,714	93,262,399	362,657,113	156,189,550	40,576,596	559,423,239
1929 .....	239,633,163	112,971,107	352,604,270	204,433,451	42,794,388	599,832,109
1930 .....	109,990,336	56,957,246	166,947,582	125,022,350	34,936,061	326,905,993
1931 .....	53,047,943	26,302,030	79,349,973	79,304,435	22,907,795	181,562,203
1932 .....	25,614,606	12,214,163	37,828,769	45,014,472	10,593,358	93,436,599
1933 .....	33,945,464	20,691,338	54,636,802	41,646,879	11,377,630	107,661,311
1934 .....	80,603,633	45,125,359	125,728,992	72,894,468	13,647,144	212,270,604
1935 .....	99,342,411	51,985,938	151,328,349	89,354,087	13,206,125	253,888,561
1936 .....	107,483,285	56,683,828	164,167,113	91,329,409	13,938,409	269,434,931
1937 .....	140,638,203	102,957,996	243,596,199	122,364,286	17,914,078	383,874,563
1938 .....	104,628,982	74,490,036	179,119,018	107,613,293	15,871,265	302,603,576
1939 .....	89,172,300	71,468,106	160,637,406	109,321,470	21,883,803	291,842,678

\*Truck shipments to Non-Contiguous Territories, if any, were not segregated from passenger cars.

①—Includes value of "parts for assembly" exported and shipments to non-contiguous territories.



# 1939 Exports Equal to Retail Sales In 16 States



	PASSENGER CARS		MOTOR TRUCKS		TOTAL	
	Units Exported	% of U.S. Output	Units Exported	% of U.S. Output	Units Exported	% of U.S. Output
1913.....	24,293	5.3	993	4.2	25,286	5.2
1914.....	28,306	5.2	784	3.1	29,090	5.1
1915.....	23,880	2.7	13,996	18.9	37,876	3.9
1916.....	56,234	3.7	21,265	23.1	77,499	4.8
1917.....	64,808	3.7	15,977	12.5	80,785	4.3
1918.....	36,936	3.9	10,308	4.5	47,244	4.0
1919.....	67,145	4.1	15,585	6.9	82,730	4.4
1920.....	146,997	7.7	30,112	9.4	177,109	8.0
1921*	51,050	3.5	12,569	8.5	63,619	3.9
1922.....	105,000	4.6	22,398	8.3	127,398	5.0
1923.....	175,059	4.8	60,218	14.7	235,277	5.8
1924.....	217,170	6.8	76,104	18.3	293,274	8.1
1925.....	316,099	8.5	112,595	21.2	428,694	10.0
1926.....	289,196	7.6	103,867	20.1	393,063	9.1
1927.....	332,042	11.3	134,338	28.9	466,380	13.7
1928.....	418,901	11.0	163,812	30.1	582,713	13.4
1929.....	451,095	9.8	282,667	36.7	733,762	13.7
1930.....	247,764	8.9	157,951	27.7	405,715	12.1
1931.....	134,304	6.8	107,619	25.8	241,923	10.1
1932.....	73,115	6.4	47,350	20.1	120,465	8.8
1933.....	98,155	6.2	78,428	22.6	176,583	9.2
1934.....	184,156	8.5	126,366	22.0	310,522	11.3
1935.....	210,367	6.5	124,474	17.9	334,841	8.5
1936.....	211,477	5.8	134,590	17.2	346,067	7.8
1937.....	272,503	7.0	203,411	22.8	475,914	9.9
1938.....	190,156	9.5	135,786	27.8	325,942	13.1
1939.....	164,615	5.7	151,523	21.3	316,138	8.8

NOTE—Includes shipments to non-contiguous territories from 1920 to date and electric vehicles from 1922 to 1930.

\*Includes number of motor vehicles assembled abroad from parts produced in United States, from 1921 to date.

# Dealers' Gross Margins Are Low, R

## Profits on Sales Also Below Other Trades

(From "Dun's Review," July, 1937)

Type of Establishment	GROSS MARGIN % OF NET SALES		PROFIT % OF NET SALES	
	1936	1935	1936	1935
Radio (with repairing) . . . . .	46.7	52.1	5.9	6.8
Jewelry . . . . .	46.4	48.3	4.8	3.5
Furniture . . . . .	39.1	39.0	6.6	5.9
Electric-Gas Household Appliances . . . . .	35.7	37.0	4.7	4.1
Automobile Accessories and Parts . . . . .	33.1	33.8	2.7	2.5
Candy and Confectionery . . . . .	32.7	39.5	4.1	1.4
Shoes . . . . .	32.4	32.8	3.7	3.3
Women's Accessories . . . . .	32.4	33.2	2.3	1.3
Men's and Boys' Clothing . . . . .	31.9	31.1	5.5	3.3
Books . . . . .	31.7	33.2	1.9	1.9
Drugs . . . . .	31.5	32.1	3.0	2.3
Children's and Infants' Ready-to-Wear . . . . .	31.2	32.1	0.4	3.1
Limited Price Variety . . . . .	31.1	31.3	6.6	5.2
Men's Furnishings . . . . .	30.8	31.6	4.5	2.9
Family Clothing . . . . .	30.1	30.1	5.6	4.1
Tobacco . . . . .	30.1	27.5	2.4	1.9
Women's Ready-to-Wear . . . . .	30.0	29.9	2.7	0.9
Lumber and Millwork . . . . .	29.5	29.5	3.3	2.7
Lumber and Building Materials . . . . .	27.6	28.5	3.7	2.6
Dry Goods . . . . .	26.4	26.9	3.5	2.3
Coal . . . . .	25.9	29.2	1.8	1.8
Beer and Liquor (packaged) . . . . .	25.8	24.5	1.9	4.0
Building Materials and Fuel . . . . .	25.5	27.7	2.9	0.9
Meat . . . . .	23.3	23.7	2.7	1.8
Filling Stations . . . . .	23.3	24.0	2.3	2.0
Groceries and Meats . . . . .	18.5	18.3	2.1	1.6
Groceries . . . . .	17.5	17.4	1.7	1.7
<b>MOTOR VEHICLES</b> . . . . .	16.9	18.9	2.2	2.8
Grocery Stores with Filling Stations . . . . .	16.7	17.1	2.6	2.7
Feed, Grain and Hay . . . . .	15.9	13.4	2.7	1.4
Unweighted Averages . . . . .	29.0	29.8	3.4	2.8

## Operating Expense Relative to Net Sales Also Low

Type of Establishment <sup>①</sup>	% OF NET SALES	
	1935	1929
Restaurants . . . . .	47	35
Florists . . . . .	37	36
<b>MOTOR VEHICLES</b> . . . . .	15	17
Groceries . . . . .	13	12
Hay, Grain and Feed . . . . .	11	8
All Trades—Weighted Average . . . . .	23	21

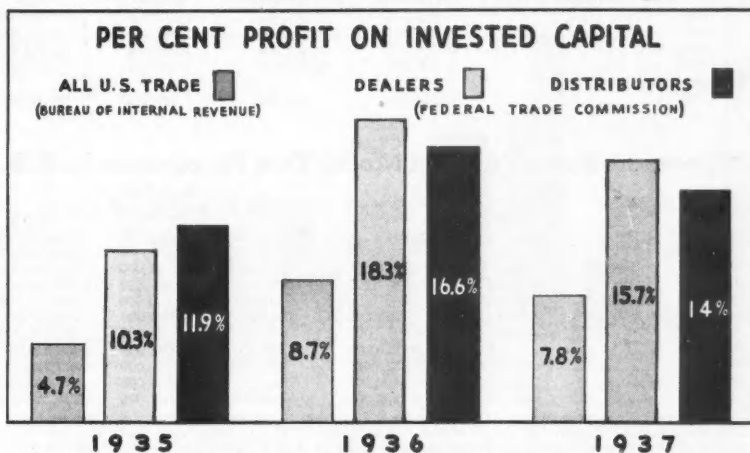
①—SOURCE: U. S. Census of Business, 1935. Two lowest and two highest shown here, compared with motor vehicle dealers and the weighted average for all trades.

②—All types which had 500 or more outlets reporting to Dun & Bradstreet in one year, or which had large numbers of stores as shown by Census Survey of Business, 1937-1938.

③—Average salary per establishment derived from Dun & Bradstreet Trade Surveys by multiplying Dun & Bradstreet's typical ratio of salaries to sales times average sales figures, same source.

# w, Return on Invested Capital High

## Owners'-Officers' Salaries Above Average



NOTE: All departments and all capital investments included, with profits computed after deduction of owners' and executives' salaries, but before deduction of income taxes. All-trade averages based on income tax returns, U. S. Bureau of Internal Revenue, Dealer and distributor averages from Federal Trade Commission report on motor vehicle industry.

## Average Owners' and Officers' Salaries in Retail Trade (1933-1936, inclusive)

Type of Establishment <sup>②</sup>	Average Salary <sup>①</sup>	Rank
<b>MOTOR VEHICLE DEALERS</b> (new and used) .....	\$5,059	1
Furniture Stores .....	4,858	2
Baked Goods and Bakeries .....	3,985	3
Men's and Boys' Clothing Stores .....	3,979	4
Coal Dealers .....	3,794	5
Drinking Places .....	3,430	6
Jewelry Stores .....	3,279	7
Men's and Women's Shoe Stores .....	3,000	8
Women's and Children's Clothing Stores .....	2,936	9
Hardware Stores .....	2,935	10
Garages .....	2,861	11
Feed, Hay and Grain Retailers .....	2,776	12
Dry Goods Stores .....	2,677	13
Drug Stores .....	2,621	14
Grocery and Meat Stores .....	2,512	15
Heating and Plumbing Contractors .....	2,481	16
Limited Price Variety Stores .....	2,275	17
Restaurants and Eating Places .....	2,127	18
Filling Stations .....	2,077	19
Grocery Stores .....	1,876	20
Country-General Stores .....	1,677	21
Unweighted Average .....	3,010	..

# Replacements are Two-thirds of Tire Market

(SOURCE: The Rubber Manufacturers Association)

PNEUMATIC CASINGS-UNITS	Original Equipment	Replacement	Export	Total
1936.....	21,446,114	30,866,586	1,072,799	53,385,499
1937.....	22,352,601	29,886,326	1,246,461	53,485,388
1938.....	10,716,130	30,565,006	1,048,934	42,330,072
1939.....	18,207,596	38,022,034	1,279,185	57,508,775
INNER TUBES-UNITS				
1939.....	18,190,630	31,997,906	1,001,778	51,190,314

## Wholesale Sales Value of Motor Tire Shipments in U.S.

	Pneumatic Casings	Inner Tubes	Solids and Cushions	Auto Tire Sundries and Fabrics	Total
1929.....	\$592,172,000	\$84,623,000	\$17,554,000	\$28,056,000	\$722,405,000
1930.....	439,095,000	63,364,000	9,535,000	20,288,000	532,282,000
1931.....	340,979,000	49,876,000	5,520,000	15,191,000	411,566,000
1932.....	251,447,000	31,884,000	3,270,000	10,955,000	297,556,000
1933.....	256,192,000	35,271,000	2,903,000	12,389,000	306,755,000
1934.....	269,957,000	36,804,000	1,941,000	15,680,000	324,382,000
1935.....	324,937,000	44,715,000	1,502,000	16,321,000	387,475,000
1936.....	368,353,000	50,524,000	1,386,000	15,053,000	435,316,000
1937.....	419,669,000	54,335,000	961,000	17,765,000	492,770,000
1938.....	328,865,000	44,400,000	514,000	16,201,000	389,980,000
1939.....	448,154,000	55,923,000	484,000	19,651,000	524,212,000

The above figures representing 100% of the tire industry are estimates made by the Automobile Manufacturers Association based on actual reports to The Rubber Manufacturers Association, Inc. from companies representing 98% of the industry's sales for 1929 to 1934, 87% for 1935, 80% for 1936 to 1938, and 75% for 1939.

## 1939 Parts, Accessories Sales Increase 29% Over 1938

(Estimates based on Federal Excise Tax Receipts)

	Wholesale Value		Wholesale Value
1933.....	\$227,183,250	1937.....	\$474,589,246
1934.....	299,576,750	1938.....	354,365,580
1935.....	359,146,550	1939.....	458,673,191
1936.....	446,053,700		

NOTE—For year to year comparisons, probably the most comprehensive and accurate measure of the trend in the domestic market sales of repair parts and accessories is obtainable from the Federal excise tax collections. The wholesale value of parts and accessories taxable has been estimated by dividing the tax rate of 2% into the aggregate annual collections for years ending January 31st.

The Federal excise tax does not apply on parts and accessories exported, direct sales to governments, sales of garage and service equipment and items which are used for a variety of purposes other than automotive, such as bolts, nuts, lacquers, paints, varnish, cloth, leather, etc. used in repairs.

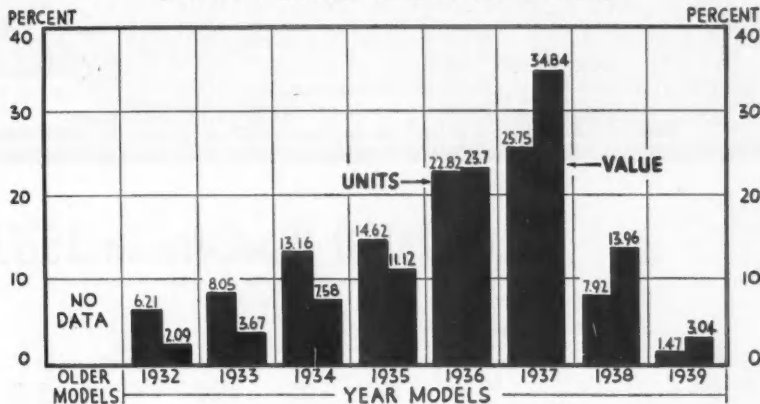
## Capital Invested in Motor Vehicle Manufacturing\*

Year	Cars	Trucks	Total
1929.....	1,518,714,814	437,972,847	1,956,687,661
1930.....	1,442,275,653	438,532,580	1,880,808,233
1931.....	1,215,200,000	380,600,000	1,595,800,000
1932.....	1,118,600,000	371,300,000	1,489,900,000
1933.....	1,012,548,000	336,418,000	1,348,966,000
1934.....	955,599,000	322,918,000	1,278,517,000
1935.....	969,356,000	304,469,000	1,273,825,000
1936.....	1,006,108,000	338,435,000	1,344,543,000
1937.....	1,003,869,000	365,762,000	1,369,631,000
1938.....	905,981,000	372,444,000	1,278,325,000
1939.....	920,636,000	382,270,000	1,302,906,000

\*The above figures represent net tangible assets of motor vehicle manufacturing plants located in United States, and do not include parts, accessory, body and tire manufacturers.

# Sales of 1937 Model Used Cars Largest in 1939

(SOURCE: National Automobile Dealers Association)



## Automobile Instalment Financing

(Figures from National Association of Sales Finance Companies)

### PASSENGER AND COMMERCIAL VEHICLE SALES IN UNITED STATES

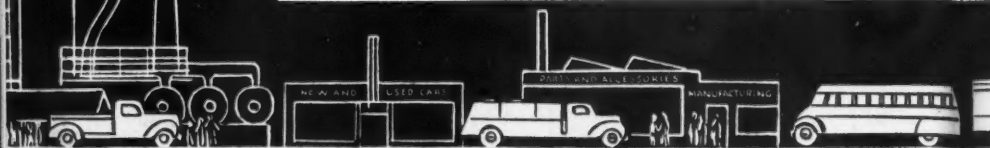
	1929	1932	1933	1935	1936	1937	1938	1939
<b>Average Note Purchased</b>								
New cars.....	\$595	\$546	\$516	\$550	\$580	\$593	\$630	\$645
Used cars.....	297	241	220	237	258	279	275	280
All cars.....	456	352	343	370	400	410	386	409
<b>Average Loss Per Repossessed Car</b>								
New cars.....				\$67	\$61	\$53	\$70	\$70
Used cars.....				53	49	52	58	52
All cars.....	63	59	42	55	51	52	62	54
<b>Percentage of Repossessions</b>								
New cars total.....	%	%	%	%	%	%	%	%
Used cars total.....	3.0	5.7	2.8	2.7	2.2	4.1	6.3	2.7
All cars.....	5.6	13.1	7.8	10.7	7.5	13.2	19.2	10.1
	4.2	10.4	5.7	7.3	5.1	9.4	15.1	7.5
<b>Skips Per 1,000 Transactions.....</b>	5.2	5.5	4.6	2.4	2.6	1.7	5.8	3.6
<b>Instalment Paper Ratios.....</b>	%	%	%	%	%	%	%	%
Over 12 months, new.....				62	72	78	72	76
Over 12 months, used.....				24	35	53	51	58
Over 12 months, total.....	15	22	13	48	59	68	62	66
Under 33 1/3% down payment, new.....				29	26	23	19	29
Under 33 1/3% down payment, used*.....				43	27	24	23	30
Under 33 1/3% down payment, total.....	8	14	12	34	26	23	21	30
<b>Per Cent Trade-ins</b>	%	%	%	%	%	%	%	%
On sales of new cars①.....	73	89	86	85	85	84	88	89
On sales of used cars①.....	46	48	52	55	51	55	59	59
Used cars sold, % of new②.....		209	162	140	151	162	216	185

\*Standard down payment was 40% for used cars prior to 1936.

①—From National Automobile Dealers Association.

②—From Automobile Manufacturers Association.

# Motor Transport Employs One



## 6,500,000 Workers in 1939

State	Motor Vehicle Parts and Tire Manufacturing Petroleum Refining①	Sales and Servicing②	Federal and State Roads③	Truck Drivers④	Bus Drivers⑤	Total
Alabama	162	12,979	5,767	41,800	2,012	62,720
Arizona	.....	4,479	1,411	19,800	758	26,448
Arkansas	600	10,200	2,537	49,200	1,121	63,658
California	28,892	83,407	6,498	285,100	6,776	410,670
Colorado	135	12,030	2,785	25,500	2,133	42,583
Connecticut	1,391	14,980	3,363	70,700	2,448	92,882
Delaware	.....	2,436	612	9,000	297	12,345
Florida	114	18,469	3,995	70,400	1,971	94,949
Georgia	855	20,930	6,151	62,800	2,193	92,929
Idaho	.....	4,548	1,491	18,500	498	25,037
Illinois	15,669	60,145	8,487	208,900	4,200	297,401
Indiana	45,685	30,647	4,933	112,200	5,713	199,178
Iowa	287	28,048	3,645	56,100	2,028	90,108
Kansas	4,212	22,604	3,262	61,200	1,115	92,393
Kentucky	1,032	14,337	3,967	60,900	2,009	82,245
Louisiana	5,462	13,174	3,522	77,600	2,472	102,230
Maine	.....	7,581	1,872	33,100	540	43,093
Maryland	1,525	12,863	2,713	47,800	1,457	66,358
Massachusetts	2,072	33,996	2,899	112,700	6,650	158,317
Michigan	325,884	48,570	6,560	130,800	5,247	517,061
Minnesota	1,276	28,392	5,309	85,000	2,365	122,342
Mississippi	.....	8,354	10,260	30,300	2,564	51,478
Missouri	9,915	37,275	6,384	124,000	4,450	182,024
Montana	524	5,847	1,769	21,100	614	29,654
Nebraska	.....	15,638	2,665	29,000	925	48,228
Nevada	.....	1,263	819	7,400	242	9,724
New Hampshire	.....	4,547	3,699	21,300	573	30,119
New Jersey	19,653	30,961	3,061	138,500	11,246	203,421
New Mexico	152	3,658	1,478	19,200	720	25,208
New York	25,713	94,064	7,580	315,000	18,356	460,713
North Carolina	361	22,409	7,926	63,000	3,381	97,077
North Dakota	.....	6,050	1,400	13,400	506	21,356
Ohio	96,501	64,984	7,628	175,700	7,562	352,375
Oklahoma	6,173	22,639	2,495	67,500	2,268	101,035
Oregon	263	11,580	2,844	39,800	1,573	56,040
Pennsylvania	34,777	72,534	23,854	242,500	9,850	383,515
Rhode Island	53	5,605	693	21,900	735	28,986
South Carolina	96	10,727	3,429	35,700	1,088	51,040
South Dakota	.....	6,727	1,714	12,100	429	20,970
Tennessee	218	17,232	3,748	53,600	2,093	76,891
Texas	25,023	61,496	16,088	274,600	6,583	383,760
Utah	.....	5,214	1,889	19,300	783	27,186
Vermont	.....	3,382	1,027	4,500	435	9,354
Virginia	131	17,675	8,996	55,400	2,774	84,976
Washington	315	17,799	3,131	67,100	2,689	91,034

# Seventh of All U. S. Workers



## All States Share in Benefits

State	Motor Vehicle Parts and Tire Manufacturing Refining <sup>①</sup>	Sales and Servicing <sup>②</sup>	Federal and State Roads <sup>③</sup>	Truck Drivers <sup>④</sup>	Bus Drivers <sup>⑤</sup>	Total
West Virginia .....	571	10,277	5,549	46,700	1,870	64,967
Wisconsin .....	21,524	26,019	6,574	81,800	2,205	138,122
Wyoming .....	1,402	2,757	1,011	11,300	1,081	17,551
District of Columbia .....	7,191	7,191	483	19,400	1,470	28,544
Unsegregated .....	34,993	96,623*	.....	.....	.....	131,616
Total .....	713,611	1,175,132*	219,930	3,650,200	143,038	5,901,911

Total, Including raw material workers and other not segregated by states..... ⑥6,500,000

①—From 1937 Census of Manufacturers, latest available.

②—These are the 1935 Census of American Business figures marked up 4½ percent.

③—Average monthly employment from U. S. Public Roads Administration. Employment on township and county roads is not available.

④—Estimated by allowing 1.14 full-time drivers (the national average) per truck registered, exclusive of farm trucks.

⑤—Estimated by allowing two drivers per revenue bus and one-half driver per school bus, according to the Bus Census made by "Bus Transportation."

⑥—Includes employees producing raw materials, taxi-drivers and chauffeurs, and automobile insurance and finance company employees.

\*Includes 1,362 wholesale workers and 95,261 bulk tank station employees which were not segregated by states.

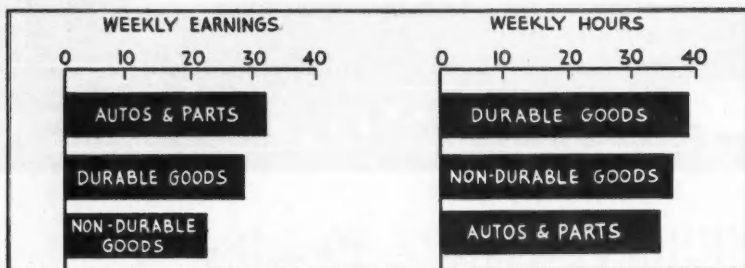
## Truck Transport Employs 4,000,000

Approximately 1 Out of Every 11 Workers

	Employ- ment
Motor trucks, parts and supplies production .....	83,000
Petroleum production and refining .....	21,000
Sales and servicing .....	247,000
Miscellaneous, including raw materials, etc .....	60,900
Truck drivers .....	3,650,200
Total .....	4,062,100



# Better Pay, Shorter Hours for Motor Workers



Weekly averages per individual worker for the year 1939 from U. S. Bureau of Labor Statistics.

## Employment, Earnings and Hours of All Wage Earners in Automobile, Body and Parts Factories

Year	ALL FACTORY WAGE EARNERS		INDIVIDUAL WORKER AVERAGES			
	Average Employment <sup>①</sup>	Total Payrolls <sup>②</sup>	Weekly Earnings <sup>③</sup>	Cost of Living <sup>④</sup>	Weekly Purchasing Power <sup>⑤</sup>	Hours per Week <sup>⑥</sup>
1899...	2,000	\$1,321,000	\$12.50	.....	.....	..
1904...	12,000	7,159,000	11.50	.....	.....	..
1909...	76,000	48,694,000	12.30	.....	.....	..
1914...	127,000	101,927,000	15.40	56.0	88.0	..
1919...	343,000	491,121,000	27.50	100.6	87.5	..
1921...	213,000	318,753,000	28.80	104.8	87.9	..
1923...	405,000	660,088,000	31.30	99.1	101.0	..
1924...	377,000	594,464,000	30.30	99.5	97.4	..
1925...	426,000	713,856,000	32.20	101.4	101.6	45
1926...	422,000	687,648,000	31.30	102.0	98.2	..
1927...	370,000	612,196,000	31.80	99.6	102.1	..
1928...	435,000	747,344,000	33.00	98.1	107.6	44
1929...	448,000	732,264,000	31.40	98.2	102.3	..
1930...	323,000	431,080,000	25.70	95.2	86.4	35
1931...	286,000	350,376,000	23.60	85.3	88.5	..
1932...	244,000	254,592,000	20.10	75.3	85.4	30
1933...	244,000	251,316,000	19.80	71.3	88.8	33
1934...	381,000	447,460,000	22.60	74.6	96.9	32
1935...	445,000	587,236,000	25.40	77.6	104.7	34
1936...	459,000	674,492,000	28.30	79.7	113.6	37
1937...	517,000	814,268,000	30.30	83.0	116.8	34
1938...	305,000	454,064,000	28.60	82.0	111.6	31
1939...	394,000	639,756,000	31.20	80.5	124.0	34

①—1899-21 from U. S. Census of Manufactures, 1923 on from U. S. Bureau of Labor Statistics; Indexes times base figures from BLS Bulletin No. 610.

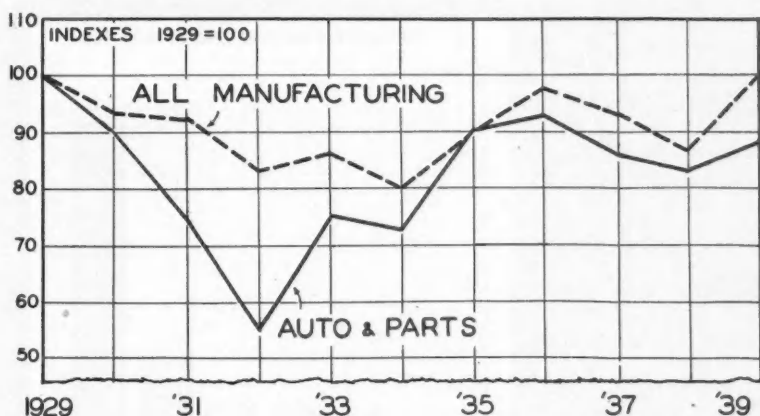
②—Payrolls divided by 52 times average employment.

③—Special index prepared by U. S. Bureau of Labor Statistics for automotive cities. Prior to 1925 data are estimates by Automobile Manufacturers Association based on BLS indexes 1923-25 = 100.

④—Weekly Earnings divided by Cost of Living, 1923-25 = 100.

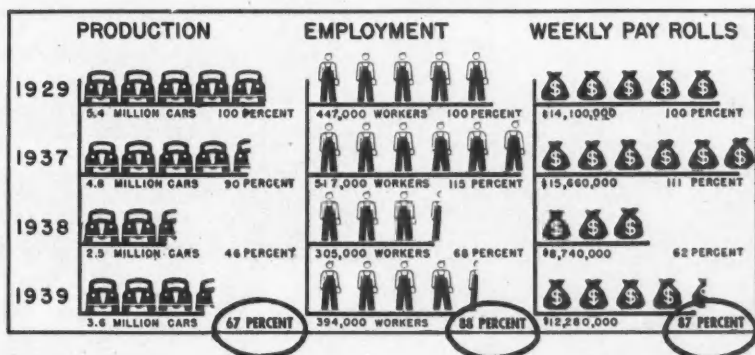
⑤—Weekly Earnings divided by Hourly Rates reported by U. S. Bureau of Labor Statistics.

# Output Per Auto Worker Is Below 1929



From W. P. A.—National Research Project, "Production, Employment and Productivity in 59 Manufacturing Industries." Data from 1936 on is preliminary, the automobile index supplied by the W. P. A., and the "All Manufacturing" index estimated by the Automobile Manufacturers Association on the basis of Federal Reserve Board and Bureau of Labor Statistics indexes of production and employment.

## Automobile Employment and Pay Outstrip Production

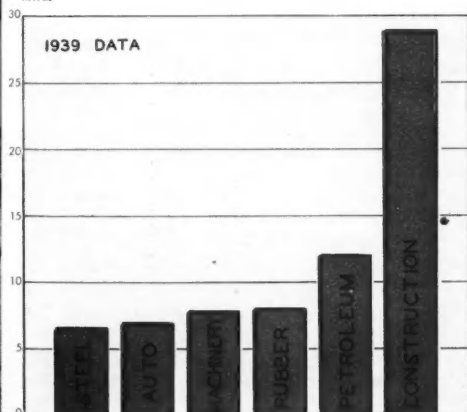


Reproduced from "Monthly Labor Information Bulletin," U. S. Department of Labor.

# MACHINES MAKE JOBS

## 1939 ACCIDENT RATES IN SELECTED INDUSTRIES

FREQUENCY  
RATES

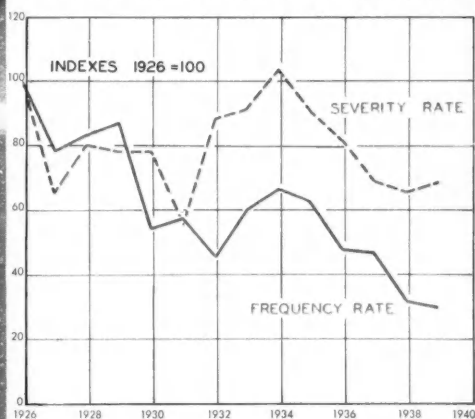


Source: National Safety Council. For definition of frequency rate, see footnotes below chart on opposite page.

This picture shows heavy lifting  
now displaced by machines

# BS EASIER AND SAFER

TREND OF ACCIDENTS IN AUTOMOBILE MANUFACTURING

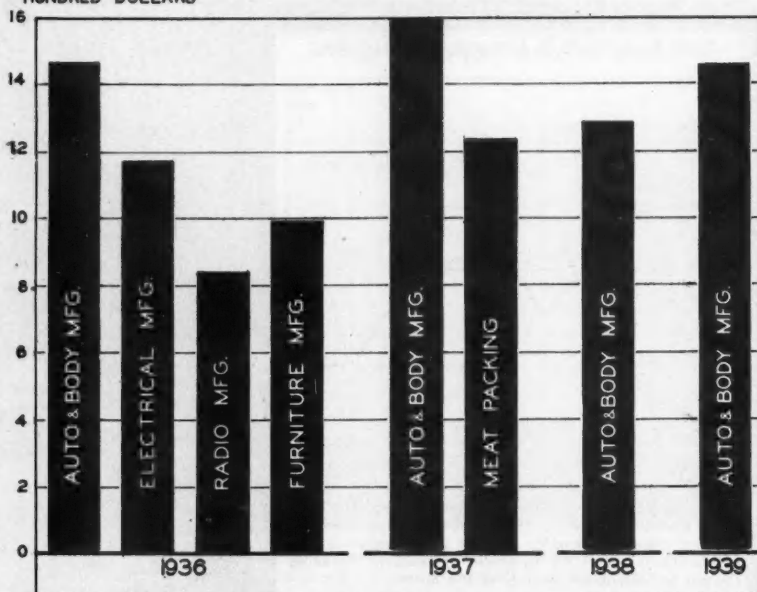


Source: National Safety Council. Frequency rate is the number of disabling injuries per million man-hours of exposure. Severity rate is the number of days lost as result of disabling injuries per 1,000 man-hours of exposure, including charges for permanent disabilities and deaths.

Modern machines have removed many hazards to workers.

# Annual Earnings of Individual Workers in U.S.

HUNDRED DOLLARS



Automobile industry earnings from surveys by Automobile Mfrs. Assoc., for model years, Sept. to Aug. Other industries, from U. S. Bureau of Labor Statistics, cover calendar years. Data cover hourly paid factory workers employed when surveys were made. In each year data of automobile survey was end of model year. With the exception of automobile and meat packing, other surveys followed by some months close of employment year. This serves to make averages for latter industries higher than they would be had surveys been made at end of employment year because more short term employees had been eliminated.

## Automobile Factories Compared With All Manufacturing AVERAGE ANNUAL EARNINGS

Motor Vehicles and Parts 1937

All Manufacturing . . . . . 1937

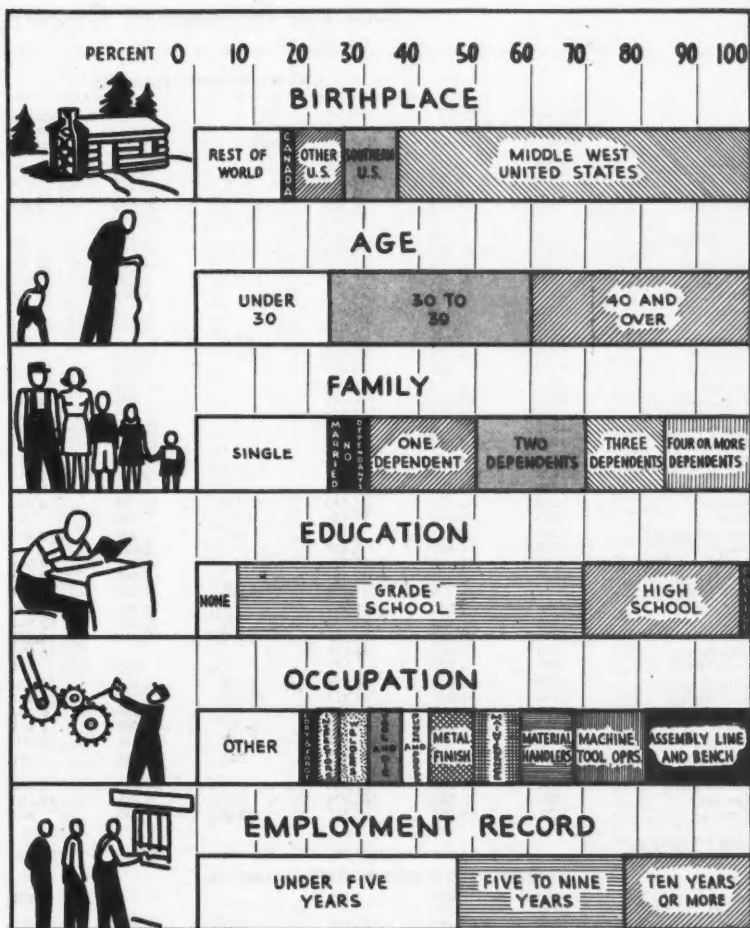
Motor Vehicles and Parts 1938

All Manufacturing . . . . . 1938

These averages are based on data from the records of the Bureau of Old-Age and Survivors Insurance of the Social Security Board. All employees are classified for both years according to their industry status during the last quarter of 1938. The averages are not an exact measure of individual annual earnings, for they exclude earnings from non-covered employment, earnings over \$3,000 per year, earnings of persons of age 65 and over, and earnings of individuals not employed in the fourth quarter of 1938. There are also minor errors, due to the tabulation of a small proportion of late 1937 reports with those for 1938.

The comparisons of motor vehicles and parts with all manufacturing is generally accurate. It is biased, if at all, against the motor vehicle industry, because motor vehicle factory employment expanded sharply in the late months of 1938.

# Characteristics of Automobile Workers in U. S.



Data are from surveys of individual automobile and body factory workers, male only, made by Automobile Manufacturers Association in plants of members, and are for latest period available in each case.

Notes: Education: Represents formal education completed. A person who did not finish the eighth grade is counted as "none".

Occupation: "Other", in addition to occupational groups not listed above, includes some men who have worked in one of the occupational groups shown but who were classified in the miscellaneous group because of unusual occupational terminology.



# 33% of Total, or 822,285 Miles of County and

## Existing Mileage of County and

(SOURCE: U. S. Public Roads Administration, compiled for latest available year from

### NONSURFACED MILEAGE

State	Effective Date Dec. 31	Total Existing Mileage	Total	Primitive	Unimproved	Graded and Drained
Alabama①	1938	54,972	26,011		15,602	10,409
Arizona	1937	15,292	13,298	5,367	5,578	2,353
Arkansas	1936	45,734	38,695	9,546	17,973	11,176
California	1937	86,924	46,397	14,748	28,026	3,623
Colorado	1939①	62,579	57,634	28,767	24,223	4,644
Connecticut①	1935	9,837	5,895		5,553	343
Florida	1936	21,889	15,907	2,073	1,084	12,750
Georgia②	1939①	86,879	63,703		36,295	27,408
Idaho	1936	22,967	17,072	4,772	9,230	3,070
Illinois	1936	93,034	42,713		4,967	37,746
Indiana①	1934	67,830	23,697		23,697	
Iowa①	1938	93,391	57,918		19,649	38,269
Kansas	1936	119,074	97,308	13,859	81,584	1,865
Kentucky	1938①	47,623	29,546	6,474	19,363	3,709
Louisiana	1937	21,873	16,482		5,542	12,940
Maine①	1935	12,875	11,538		11,538	
Maryland①	1939	12,222	6,616		1,873	4,743
Massachusetts①	1935	16,406	6,918		575	6,343
Michigan	1936	83,898	33,273		11,497	21,776
Minnesota①	1934	104,696	59,926		22,093	37,833
Mississippi①	1935	85,895	36,143		13,022	23,121
Missouri	1936	102,179	79,609	3,619	16,071	59,919
Montana①	1938	60,230	52,760		47,632	5,128
Nebraska	1936	92,031	81,440	23,276	49,126	9,036
Nevada	1937	18,246	17,939	9,931	7,307	701
New Hampshire	1937	7,952	4,367	938	1,009	2,420
New Jersey②	1939①	16,847	6,489		6,489	
New Mexico①	1937	46,115	45,076		41,017	4,059
New York①	1935	70,824	37,184		19,661	17,523
North Dakota	1937	102,814	91,713	36,956	36,129	18,668
Ohio	1936	67,892	11,926		4,961	6,945
Oklahoma	1936	91,983	83,795	174	19,767	63,854
Oregon	1936①	30,018	17,668	2,170	6,546	8,952
Pennsylvania①	1934	51,487	44,176			44,176
Rhode Island①	1935	1,727	1,171		356	815
South Carolina	1938	35,860	28,795	4,956	13,591	10,238
South Dakota	1936	94,051	79,577	39,169	1,097	39,311
Tennessee②	1938	55,550	21,023		14,826	6,197
Texas	1937①	165,042	137,836	8,185	116,398	13,263
Utah	1937②	14,582	11,767	4,720	4,731	2,316
Vermont	1938	11,676	6,471	849	1,238	4,384
Virginia②	1934	1,186	776			776
Washington①	1934	39,130	21,548		14,030	7,518
Wisconsin	1936	72,280	22,904	361	3,387	19,156
Wyoming	1937	19,344	18,760	6,214	11,623	923
Total County and Local Roads		2,404,968	1,633,461	227,134	795,966	610,361
COUNTY ROADS UNDER STATE CONTROL						
Delaware	1938	1,932	1,932			1,932
Nevada	1938	29				
North Carolina	1938	47,917	26,282	329	7,682	18,271
Tennessee	1938	511	97		1	96
Virginia	1938	36,357	15,346		5,460	9,886
West Virginia	1935	29,220	20,531	399	14,524	5,608
Sub-Total		114,955	64,188	723	27,667	35,793
Total County and Local Roads in U. S.		2,519,934	1,697,649	227,862	823,633	646,154

①—Report by state. ②—Published by the American Association of State Highway Officials, October, 1939. ③—From Report "Road Mileage Survey as of July 1st, 1939," published by New Jersey State Highway Department. ④—Road Inventory total not classified by type. Graded and surfaced mileages are as reported by State for 1936; remainder is shown as unimproved.



# City and Local Highways Are Surfaced

## and Local Rural Roads, by Types

Year from Highway Planning Survey data and other reports by state authorities)

**SURFACED MILEAGE CLASSIFIED BY TYPES**

Total	Soil-Surfaced	Gravel and Stone	Low-Type Bituminous	High-Type Bituminous	Portland Cement Concrete	Brick and Block	Dual-Type	State
28,961	10,732	17,672	309	85	160	3	....	Alabama
1,994	149	1,277	255	60	248	6	....	Arizona
7,039	126	6,761	75	40	37	....	....	Arkansas
40,527	3,780	13,572	17,770	4,309	1,073	....	230	California
4,945	373	4,471	91	3	7	....	....	Colorado
3,941	....	3,482	213	176	70	....	....	Connecticut
5,982	642	1,546	3,266	286	33	209	....	Florida
23,176	19,754	2,095	615	327	385	....	....	Georgia
5,915	79	5,718	111	5	2	....	....	Idaho
50,321	9,716	38,188	665	82	1,431	239	....	Illinois
44,133	....	34,225	7,672	991	1,164	81	....	Indiana
35,473	555	34,443	435	1	35	4	....	Iowa
21,766	178	21,116	241	122	100	9	....	Kansas
18,077	214	15,513	2,223	85	41	1	....	Kentucky
3,391	....	3,257	19	108	7	....	....	Louisiana
1,337	....	1,336	....	1	....	....	....	Maine
5,606	360	2,886	2,101	78	180	1	....	Maryland
9,488	7	6,596	566	2,234	75	10	....	Massachusetts
50,625	909	44,848	3,405	174	1,288	1	....	Michigan
44,770	259	44,384	....	29	98	....	....	Minnesota
19,752	576	18,892	31	125	123	5	....	Mississippi
22,570	1,370	19,690	1,141	18	348	3	....	Missouri
7,470	....	7,226	235	5	4	....	....	Montana
10,591	6	10,141	372	19	38	15	....	Nebraska
309	....	243	66	....	....	....	....	Nevada
3,585	15	3,057	507	6	....	....	....	New Hampshire
10,358	323	2,240	4,510	2,381	904	....	....	New Jersey
1,039	318	714	....	7	....	....	....	New Mexico
33,640	9	18,104	3,771	10,336	1,394	26	....	New York
11,101	5	11,097	9	....	....	....	....	North Dakota
55,986	8,150	38,393	7,621	890	575	156	181	Ohio
8,188	392	7,366	197	110	123	....	....	Oklahoma
12,350	484	10,766	576	411	89	....	24	Oregon
7,311	....	71	4,719	1,945	307	269	....	Pennsylvania
556	....	401	55	96	2	2	....	Rhode Island
7,065	6,270	47	639	42	67	....	....	South Carolina
14,474	....	14,457	6	....	1	....	....	South Dakota
34,527	2,014	30,365	547	1,506	95	....	....	Tennessee
27,206	344	22,237	3,736	208	678	3	....	Texas
2,825	65	2,522	217	7	14	....	....	Utah
5,205	....	4,968	224	8	5	....	....	Vermont
410	22	300	38	37	13	....	....	Virginia
17,582	89	14,598	1,157	682	971	85	....	Washington
49,376	890	45,310	2,146	473	557	....	....	Wisconsin
584	....	554	30	....	....	....	....	Wyoming
771,507	69,174	587,145	72,582	28,508	12,742	1,128	228	Total County and Local Roads
<b>COUNTY ROADS UNDER STATE CONTROL</b>								
29	....	....	29	....	....	....	....	Delaware
21,635	14,161	5,912	1,121	214	181	35	11	Nevada
414	....	326	59	15	13	....	1	North Carolina
21,011	6,821	9,654	3,610	870	56	....	....	Tennessee
7,689	1,256	4,788	1,203	130	254	57	1	Virginia
....	....	....	....	....	....	....	....	West Virginia
50,778	22,238	20,680	6,022	1,229	504	92	13	Sub-total
822,285	91,412	607,825	78,604	29,737	13,246	1,220	241	Total County and Local Roads in U.S.

①—In 3 counties only. Roads in remaining 97 counties are under State control. See section below on "County Roads Under State Control." ②—Not classified. ③—Aug. 1. ④—July 1. ⑤—September 1. ⑥—January 10.

# 86% of Primary and Secondary

## Existing Mileage on Primary Systems

(Preliminary Statement, compiled for Calendar Year, 1938, from

### SURFACED MILEAGE CLASSIFIED BY TYPES

State	Grand Total	Total	Soil Surfaced	Gravel or Stone	Low-Type Bitu- minous	High-Type Bitu- minous
Alabama	6,321	4,254	341	115	2,740	199
Arizona	3,566	2,768	7	517	2,027	90
Arkansas	8,751	7,807	....	5,410	799	525
California	4,040	4,039	69	....	1,816	905
Colorado	3,512	3,422	....	615	2,322	15
Connecticut	2,620	2,536	....	....	1,328	570
Delaware	1,921	1,921	199	270	227	452
Florida	6,677	6,111	22	146	4,602	499
Georgia	11,071	9,962	658	969	2,458	911
Idaho	4,685	3,809	44	1,273	2,290	141
Illinois	10,075	10,070	....	58	127	8
Indiana	10,121	9,660	138	885	3,559	946
Iowa	8,542	8,451	....	2,754	587	....
Kansas	9,349	8,567	....	3,010	3,945	171
Kentucky	8,903	8,589	3	3,150	3,593	662
Louisiana	3,794	3,772	....	813	10	930
Maine	2,748	2,639	....	102	1,822	487
Maryland	4,053	4,053	39	53	1,172	1,112
Massachusetts	1,878	1,878	....	....	137	1,334
Michigan	8,355	7,810	....	2,926	918	475
Minnesota	10,948	10,522	241	3,460	4,047	178
Mississippi	3,497	3,481	11	1,404	362	201
Missouri	8,292	8,213	21	2,074	2,203	128
Montana	4,720	4,471	....	378	4,065	3
Nebraska	8,171	7,724	....	5,437	1,201	22
Nevada	2,683	2,429	....	132	2,246	39
New Hampshire	1,426	1,426	....	....	973	196
New Jersey	1,235	1,235	....	7	25	118
New Mexico	11,641	5,119	....	2,196	2,693	156
New York	13,991	12,652	....	....	2,243	3,348
North Carolina	10,819	10,300	1,395	397	4,522	1,167
North Dakota	7,190	6,099	....	4,980	1,096	1
Ohio	16,223	16,068	520	2,976	5,738	2,648
Oklahoma	8,034	7,099	103	2,566	1,612	769
Oregon	4,394	4,254	22	685	2,294	1,003
Pennsylvania	12,941	12,205	16	32	4,394	2,189
Rhode Island	686	686	....	....	222	273
South Carolina	6,914	5,715	639	5	2,844	391
South Dakota	5,851	4,932	....	3,217	1,447	4
Tennessee	6,971	6,938	....	2,376	1,799	1,051
Texas	21,703	17,790	....	708	9,382	2,589
Utah	4,612	3,713	....	1,870	1,487	143
Vermont	1,700	1,700	....	613	723	82
Virginia	9,336	8,398	549	....	4,095	3,078
Washington	3,734	3,634	....	205	547	1,815
West Virginia	4,416	4,033	....	513	1,520	993
Wisconsin	9,192	9,174	....	103	4,921	219
Wyoming	3,688	3,484	....	357	3,093	9
Total Primary	325,990	292,612	4,997	59,757	108,270	33,204
SECONDARY STATE HIGHWAYS						
California	8,590	8,129	2,575	30	3,025	1,421
Colorado	9,366	4,509	19	3,757	721	....
Louisiana	13,115	9,667	....	9,211	....	338
Maine	5,867	4,736	....	1,832	2,886	12
Mississippi	2,139	2,130	....	2,030	36	....
Missouri	7,009	6,792	95	6,252	230	44
Montana	402	384	....	219	164	....
Nebraska	199	191	....	188	....	....
Nevada	2,333	458	....	256	202	....
New Hampshire	2,059	2,059	....	153	1,870	29
Oregon	2,239	1,990	....	1,308	387	205
Pennsylvania	24,802	14,483	52	1,106	8,087	4,647
Washington	2,220	2,083	10	1,209	306	197
Total Secondary	79,340	57,611	2,816	27,551	17,914	6,888

①—Includes 43 miles of bridges.

②—Includes 45 miles of bridges.

# ry Rural State Highways Are Surfaced

## erns of Rural State Highways by Types

from Reports of State Authorities by U. S. Public Roads Administration)

### SURFACED MILEAGE CLASSIFIED BY TYPES

### NONSURFACED MILEAGE

Portland Cement Concrete	Brick and Block	Dual- Type	Primi- tive	Unim- proved	Graded and Drained	Total	State
899	.....	.....	.....	.....	2,067	2,067	Alabama
108	.....	22	.....	203	595	798	Arizona
1,072	.....	1	83	279	582	944	Arkansas
1,148	.....	104①	.....	.....	1	1	California
470	.....	.....	.....	43	47	90	Colorado
633	.....	5	.....	.....	84	84	Connecticut
807	.....	6	.....	.....	.....	.....	Delaware
817	118	108	4	.....	562	566	Florida
1,925	41	.....	187	3,658	451	4,109	Georgia
61	.....	.....	.....	374	876	876	Idaho
9,619	255	3	.....	.....	5	5	Illinois
4,060	67	5	.....	399	62	461	Indiana
5,082	28	.....	.....	48	43	91	Iowa
1,271	154	16	.....	747	35	792	Kansas
1,179	2	.....	.....	96	218	314	Kentucky
2,013	.....	6	.....	.....	22	22	Louisiana
225	1	2	.....	109	.....	109	Maine
1,652	.....	25	.....	.....	.....	.....	Maryland
347	5	95	.....	.....	.....	.....	Massachusetts
3,481	3	7	.....	407	138	545	Michigan
2,590	2	4	36	.....	390	426	Minnesota
1,491	12	.....	.....	16	.....	16	Mississippi
3,499	6	282	.....	47	32	79	Missouri
25	.....	.....	.....	.....	249	249	Montana
1,011	47	6	.....	30	417	447	Nebraska
8	.....	4	.....	229	25	254	Nevada
257	.....	.....	.....	.....	.....	.....	New Hampshire
1,062	1	22	.....	.....	.....	.....	New Jersey
74	.....	.....	1,133	2,009	3,380	6,522	New Mexico
6,833	152	76	.....	1,260	79	1,339	New York
2,797	3	19	.....	187	332	519	North Carolina
22	.....	.....	.....	651	440	1,091	North Dakota
2,781	1,174	234	.....	57	98	155	Ohio
2,009	37	3	.....	297	638	935	Oklahoma
250	.....	.....	.....	.....	140	140	Oregon
5,278	116	180	.....	.....	736	736	Pennsylvania
171	.....	20	.....	.....	.....	.....	Rhode Island
1,825	.....	11	18	247	934	1,199	South Carolina
264	.....	.....	6	.....	913	919	South Dakota
1,701	11	.....	.....	.....	33	33	Tennessee
5,043	54	14	.....	2,013	1,900	3,913	Texas
189	.....	24	22	314	563	899	Utah
282	.....	.....	.....	.....	.....	.....	Vermont
601	.....	75	.....	869	69	938	Virginia
1,050	14	3	.....	.....	100	100	Washington
943	64	.....	.....	219	164	383	West Virginia
3,919	1	11	.....	.....	18	18	Wisconsin
7	.....	18	.....	121	83	204	Wyoming
82,645	2,368	1,371	1,459	14,900	17,019	33,378	Total Primary

### SECONDARY STATE HIGHWAYS

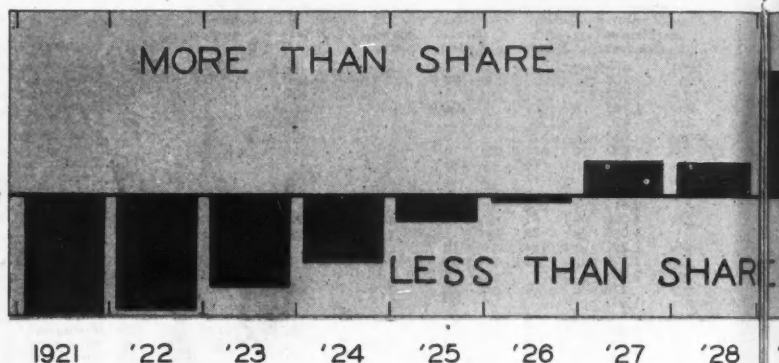
997	1	80③	.....	.....	461	461	California
12	.....	.....	105	2,069	1,683	3,857	Colorado
111	1	6	.....	837	2,611	3,448	Louisiana
6	.....	.....	.....	1,131	.....	1,131	Maine
64	.....	.....	.....	9	.....	9	Mississippi
153	.....	18	.....	.....	217	217	Missouri
1	.....	.....	.....	.....	18	18	Montana
3	.....	.....	.....	.....	8	8	Nebraska
.....	.....	.....	311	1,422	142	1,875	Nevada
7	.....	.....	.....	.....	.....	.....	New Hampshire
27	.....	3	.....	30	212	248	Oregon
470	121	.....	.....	.....	10,319	10,319	Pennsylvania
352	9	.....	.....	21	116	137	Washington
2,203	132	107	416	5,519	15,794	21,729	Total Secondary

# Motor Vehicle Owners Pay More Than Their

Payments Have Exceeded Assigned Road

(Data derived from Federal Coordinator of Transportation)

MOTOR VEHICLE SHARE  
OF HIGHWAY COSTS



## \$385,360,000 Excess Highway Payments Up to 1937

Year	Estimated Total Motor Vehicle User Payments*	Total Annual Costs of Highways and Streets Assignable to Motor Vehicle Users	Total Annual Costs Less Total Motor Vehicle Tax Payments	Adjusted Excess†
1921	\$128,079,000	\$214,136,000	\$ 86,057,000	\$ 99,082,000
1922	165,714,000	258,383,000	92,669,000	95,194,000
1923	227,723,000	296,332,000	68,609,000	75,084,000
1924	302,094,000	356,608,000	54,514,000	55,514,000
1925	396,906,000	415,880,000	18,974,000	21,034,000
1926	463,041,000	464,431,000	1,390,000	3,772,000
1927	551,356,000	520,247,000	(e) 31,109,000	(e) 27,196,000
1928	616,607,000	587,067,000	(e) 29,540,000	(e) 25,839,000
1929	763,142,000	658,555,000	(e) 104,587,000	(e) 101,065,000
1930	833,915,000	728,175,000	(e) 105,740,000	(e) 106,328,000
1931	864,549,000	736,112,000	(e) 128,437,000	(e) 138,299,000
1932	819,807,000	758,835,000	(e) 60,972,000	(e) 59,352,000
1933	795,706,000	788,604,000	(e) 7,102,000	(e) 10,148,000
1934	855,243,000	807,467,000	(e) 47,776,000	(e) 38,789,000
1935	927,264,000	841,087,000	(e) 86,177,000	(e) 56,443,000
1936	1,035,174,000	942,323,000	(e) 92,851,000	(e) 60,859,000
1937	1,138,386,000	984,326,000	(e) 154,060,000	(e) 110,722,000
Total	\$10,884,706,000	\$10,358,568,000	(e)\$526,138,000	(e)\$385,360,000

(e) Excess of payments over costs.

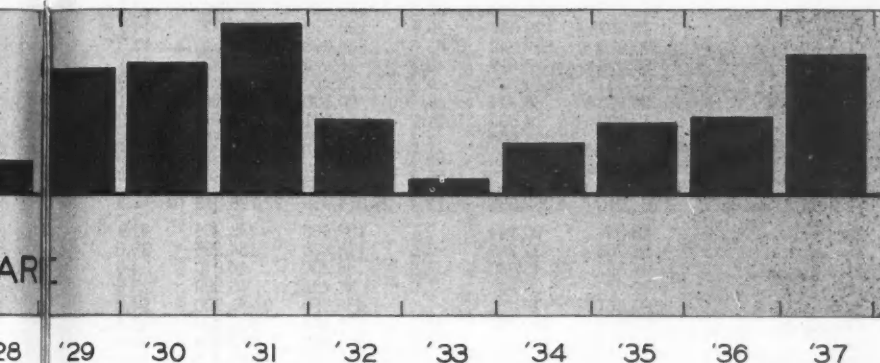
† Excluding "legal" diversion of motor vehicle taxes and other adjustments.

SOURCE: "Public Aids to Transportation" (Vol. IV), an Analysis of Highway and Street Costs and Motor Vehicle User Payments by Federal Coordinator of Transportation, 1940.

# an Their Share of Road and Street Costs

## Road & Street Costs Every Year Since 1927

(Ordinance "Public Aids to Transportation")



### \$3,641,600,000 for Other Government Functions, 1921-37

Motor Vehicle User Taxes Not Assigned to Highways

Years 1921-1937<sup>①</sup>

1. Federal excise taxes on motor vehicles, parts, tires, gasoline, oil	\$2,255,059,782
2. State registration fees in some states of the nature of property taxes	186,885,000
3. Motor taxes levied for non-highway purposes	340,437,000
4. General property taxes on motor vehicles, and tolls on bridges, ferries and tunnels	859,234,000
<b>Total</b>	<b>\$3,641,615,782</b>

In addition to the \$3,641,615,782, the following taxes are also considered as contributions to the support of other governmental functions: General state and city retail sales taxes on automotive products; and federal, state and local income, property, capital stock and other taxes on for-hire truck, bus and taxicab companies and such facilities as garages, repair shops, and gasoline filling stations.

①—Table prepared by the Automobile Manufacturers Association.

### PER CENT OF COSTS ASSIGNED TO MOTOR VEHICLES

Years*	State Highways	County and Local Roads	City Streets
1921-32 range	80.0%	15 to 31.5%	12 to 28.5%
1921-32 average	80.0%	24.0%	21.1%
1933-37	83.0%	34.0%	30.0%

\*The increase in the percentage in costs assignable to highway users from the 1921-32 period to the 1933-37 period is based on the theory that improvements in the later period were influenced more by motor vehicle use than in the earlier period.

# World's Road Mileage Gains 27% in Ten Years

(SOURCE: Automotive-Aeronautics Trade Division, Department of Commerce, as of January 1st, 1930 and 1939)

Countries	ROAD MILEAGE			WORLD REGISTRATIONS		
	1930	1939	% Incr.	1930	1939	% Incr.
Argentina.....	131,697	253,115	92.2	366,324	275,300	-24.9
Brazil.....	75,497	129,057	70.9	199,570	170,300	-14.7
Canada.....	390,060	599,040	53.6	1,224,098	1,375,133	12.3
Chile.....	22,093*	22,613	2.3	36,245	43,905	21.1
Colombia.....	14,637*	14,637	....	13,750	26,437	92.3
Mexico.....	56,923*	56,923	....	80,800	99,470	23.1
Peru.....	12,002	14,602	21.7	14,371	26,755	86.2
United States.....	3,024,233	3,065,000	1.3	26,697,398	29,852,910	11.8
Venezuela.....	2,211	5,882	166.0	18,000	29,511	64.0
Other America....	54,663*	91,818	68.0	164,363	216,828	31.9
<b>Total America...</b>	<b>3,784,016</b>	<b>4,252,687</b>	<b>12.4</b>	<b>28,814,919</b>	<b>32,116,549</b>	<b>11.5</b>
Belgium.....	18,894	20,244	7.1	158,986	233,886	47.1
Denmark.....	31,703	32,212	1.6	113,820	154,288	35.6
Eire (Ireland)....	46,462	48,550	4.5	48,400	64,840	34.0
Finland.....	29,337	39,826	35.8	36,234	45,588	25.8
France.....	393,761*	393,761	....	1,459,650	2,251,300	54.2
Germany.....	236,731	262,874	11.0	679,300	1,819,924	167.9
Italy.....	114,129	174,938	53.3	291,587	467,624	60.4
Netherlands.....	15,534	16,031	3.2	118,735	152,386	28.3
Northern Ireland..	12,992	13,008	0.1	27,035	51,819	91.7
Norway.....	23,343	25,699	10.1	46,473	90,687	95.1
Portugal.....	13,884	19,476	40.3	30,557	48,370	58.3
U. S. S. R.....	776,712	1,682,000	116.6	57,640	672,952	106.7
Spain.....	54,114	70,760	30.8	185,250	125,000	-32.5
Sweden.....	43,778*	53,980	23.3	145,273	219,201	50.9
Switzerland.....	9,233	10,291	11.5	81,045	75,650	-6.6
United Kingdom....	178,731*	178,904	0.1	1,502,237	2,558,740	70.3
Other Europe....	382,215*	522,869	36.8	237,715	244,215	2.7
<b>Total Europe...</b>	<b>2,381,553</b>	<b>3,565,423</b>	<b>49.7</b>	<b>5,219,937</b>	<b>9,276,470</b>	<b>77.7</b>
Algeria.....	21,753	47,479	118.3	50,250	69,030	37.4
Egypt.....	3,965	6,326	59.5	30,136	33,806	12.2
Morocco French..	2,516	3,690	46.7	16,065	36,500	127.2
Union of So. Africa	85,598	88,949	3.9	149,400	350,281	134.5
Other Africa.....	190,650*	309,936	62.6	109,285*	159,420	45.9
<b>Total Africa....</b>	<b>304,482</b>	<b>456,380</b>	<b>49.9</b>	<b>355,136</b>	<b>649,037</b>	<b>82.7</b>
China.....	34,810	61,430	76.5	36,771	45,922	24.9
Japan.....	659,215	591,766	-10.2	95,719	180,900	89.0
India and Burma..	225,280	314,122	39.4	174,450	128,160	-26.5
Malaya.....	7,146	7,762	8.6	41,652	44,786	7.5
Other Asia.....	148,306*	206,931	39.5	227,349*	281,153	23.7
<b>Total Asia.....</b>	<b>1,074,756</b>	<b>1,182,011</b>	<b>10.0</b>	<b>575,941</b>	<b>680,921</b>	<b>18.2</b>
Australia.....	329,662	485,546	47.3	563,657	757,982	34.5
Hawaii.....	1,717	2,095	22.0	47,846	63,048	31.8
New Zealand.....	48,433	87,760	81.2	189,615	261,850	38.1
Other.....	2,970*	5,182	74.5	4,240*	5,089	20.0
<b>Total Australia and Oceania.</b>	<b>382,782</b>	<b>580,583</b>	<b>53.0</b>	<b>805,358</b>	<b>1,087,969</b>	<b>35.1</b>
<b>World Total....</b>	<b>7,927,589</b>	<b>10,037,084</b>	<b>26.6</b>	<b>35,771,291</b>	<b>43,810,946</b>	<b>22.5</b>

\*Estimated by Automobile Manufacturers Association.

# Heavy Truck Use of Secondary Roads Is Slight

Vehicles 3-Ton and Over Account for .9% of Mileage on Secondary, 4.5% on Primary, 3% on City Streets

Class of Motor Vehicle	Estimated Total Annual Mileage (000)	DISTRIBUTION BY ROAD SYSTEMS			City and Village Streets Mileage (000)	% of System Total	
		Primary Mileage (000)	% of System Total	Secondary and Local Mileage (000)			
Private pass. cars, incl. ambulances, hearses.....	212,050,300	91,181,629	79,881.8	27,566,539	78,871.8	93,302,132	80,5000
Taxis and other for-hire cars.....	3,884,800	310,784	2,723	77,696	2,223	3,496,320	3,0166
School buses.....	813,600	284,760	2,495	488,160	1,396.7	40,680	0,351
Contract buses (seats): 7 and less.....	36,700	16,515	0.145	1,835	0.053	18,350	0,158
8 to 20.....	9,400	4,230	0.037	470	0.013	4,700	0,047
Over 20.....	9,600	4,320	0.038	480	0.014	4,800	0,041
Common carrier buses (seats): 7 and less.....	94,900	76,869	0.673	8,541	0.244	9,490	0,082
8 to 20.....	275,500	136,372	1.195	15,153	0.433	123,975	1,070
Over 20.....	1,129,500	416,717	3.651	21,303	0.610	691,480	5,966
Farm trucks.....	3,002,500	1,621,350	14.204	1,110,925	3,1785	270,225	2,331
Private trucks (tons):							
1½ and less.....	20,613,700	8,505,161	7.4511	4,415,341	12.6329	7,693,198	6,6375
Over 1½ and less than 3, single.....	5,440,000	1,970,983	1.7267	383,451	1.0971	3,085,566	2,6622
Over 1½ and less than 3, combinations.....	2,247,400	1,415,862	1.2494	89,896	.2572	741,642	.6399
3 and less than 5, single.....	3,203,400	1,278,184	1.1198	175,039	.5008	1,750,177	1,5100
3 and less than 5, combinations.....	732,600	490,842	.4300	21,978	.0629	219,780	.1896
5, single.....	628,500	320,110	.2804	19,818	.0567	288,572	.2490
5, combinations.....	198,500	144,905	.1270	3,970	.0114	49,625	.0428
Over 5, single.....	1,331,500	667,196	.5845	42,445	.1214	621,859	.5365
Over 5, combinations.....	537,800	392,594	.3439	10,756	.0308	134,450	.1160
For-hire:							
1½ tons and less.....	4,516,400	1,580,740	1.3848	406,476	1.1630	2,529,184	2,1822
Over 1½ and less than 3, single.....	1,685,000	1,236,822	1.0836	57,282	.1639	390,896	.3373
Over 1½ and less than 3, combinations.....	336,600	279,378	.2448	3,366	.0096	53,856	.0465
3 and less than 5, single.....	854,600	661,824	.5798	16,462	.0471	176,314	.1521
3 and less than 5, combinations.....	728,900	604,655	.5297	7,285	.0208	116,560	.1006
5, single.....	83,000	70,550	.0618	830	.0024	11,620	.0100
5, combinations.....	124,500	105,825	.0927	1,245	.0036	17,430	.0150
Over 5, single.....	121,500	103,275	.0905	1,215	.0035	17,010	.0147
Over 5, combinations.....	309,700	263,245	.2306	3,097	.0089	43,358	.0374
Total Motor Vehicles.....	265,000,000	114,145,697	100.0000	34,951,054	100.0000	115,903,249	100.0000
Total Passenger Cars (Including Taxicabs).....	215,935,100	91,492,413	80.1541	27,644,235	79.0941	96,798,452	83.5166
Total Motor Trucks.....	46,695,700	21,713,501	19.0225	6,770,877	19.3725	18,211,322	15.7125
Total Motor Buses (Including School Buses).....	2,369,200	939,783	.8234	535,942	1.5334	893,475	.7709

Estimated Distribution of Motor Vehicle Traffic in 1937. From "PUBLIC AIDS TO TRANSPORTATION" (Vol. IV), by Federal Coordinator of Transportation, 1940.



# How U.S. Highway Expenditures Are Distributed

(Percent Distribution)

## BY FUND ALLOCATIONS

Class of Govern- mental Unit	Capital Main- Outlay tenance	In- terest	Adminis- tration and Other	Total
States.....	63.1	26.1	6.0	4.8 100.0
Counties.....	23.9	46.4	21.9	7.8 100.0
Townships.....	19.1	74.3	2.8	3.8 100.0
Special districts	12.4	30.9	48.9	7.8 100.0
Incorporated places.....	26.5	44.2	25.0	4.3 100.0
All units.....	46.9	35.1	12.5	5.5 100.0

## BY ROAD TYPES

Class of Govern- mental Units	Primary High- ways	Sec- ondary and Local Roads	Muni- cipal Streets	All High- ways Streets
States.....	83.3	13.9	2.8	100.0
Counties.....	5.8	94.0	0.2	100.0
Townships.....	①	99.1	0.9	100.0
Special districts..	17.2	69.3	13.5	100.0
Incorporated places.....	①	0.1	99.9	100.0
All units.....	50.5	35.5	14.0	100.0

## BY GOVERNMENTAL UNITS

Class of Govern- mental Unit	Capital Main- Outlay tenance	In- terest	Adminis- tration and Other	All Ex- pendi- tures
States.....	78.9	43.6	28.1	51.3 58.7
Counties.....	12.5	32.4	43.1	35.2 24.5
Townships.....	1.5	7.7	0.8	2.6 3.6
Special districts	0.2	0.8	3.4	1.2 0.9
Incorporated				
Total.....	100.0	100.0	100.0	100.0 100.0

SOURCE: From preliminary analyses of state-wide highway planning survey data for: Alabama, Arizona, Arkansas, Florida, Idaho, Iowa, Kansas, Kentucky, Louisiana, Michigan, Minnesota, Missouri, Montana, Nevada, New Hampshire, New Mexico, North Dakota, Ohio, Oklahoma, Oregon, South Dakota, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming.

①—Less than 0.05 of one per cent.

# 303,000 Miles of Urban Streets in United States

(SOURCE: U. S. Public Roads Administration, based on results of state-wide highway planning surveys)

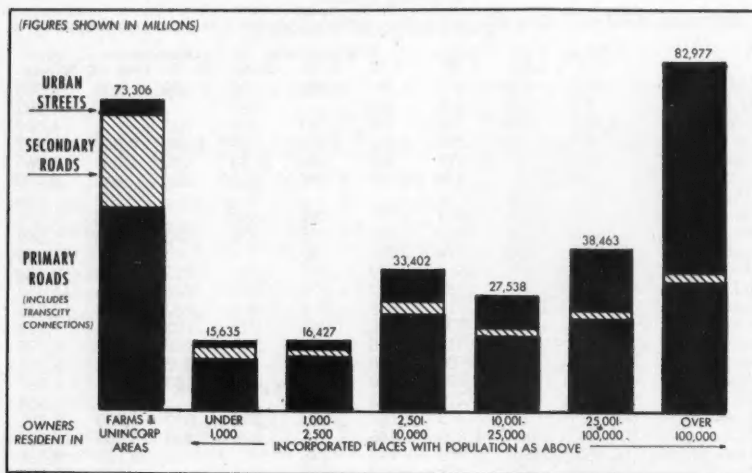
Estimated street and alley mileage in incorporated places having a population of—

State	1,000 or Less	1,000-2,500	2,501-5,000	POPULATION IN THOUSANDS—					Total Mileage
				5-10	10-25	25-50	50-100	Over 100	
Ala. ....	833	710	512	284	751	150	529	537	4,306
Ariz. ....	84	138	126	212	...	427	...	...	987
Ark. ....	1,568	793	755	345	612	213	323	...	4,609
Calif. ① ..	395	1,238	1,580	2,222	1,967	1,225	1,485	7,835	17,947
Colo. ① ..	912	730	278	426	284	133	175	1,030	3,968
Conn. ① ..	②	②	129	135	444	513	336	642	2,199
Del. ① ..	140	163	66	...	...	...	...	159	528
Fla. ....	1,309	934	1,302	1,171	888	1,339	...	1,529	8,472
Ga. ① ..	1,710	1,010	580	455	535	129	538	602	5,559
Idaho ① ..	544	380	374	397	295	...	...	...	1,990
Ill. ① ..	4,200	2,945	1,914	1,970	1,828	1,458	1,113	3,856	19,284
Ind. ....	2,160	1,485	938	1,037	1,071	1,082	546	2,123	10,442
Iowa ① ..	4,018	2,238	1,518	658	1,004	1,052	882	643	12,013
Kan. ① ..	2,460	1,414	800	491	1,042	103	192	712	7,214
Ky. ....	681	768	514	305	453	549	138	922	4,330
La. ① ..	613	548	506	326	270	198	230	1,093	3,784
Me. ① ..	②	②	228	260	270	159	163	...	1,080
Md. ① ..	504	306	279	102	152	206	...	1,005	2,554
Mass. ① ..	②	②	310	1,152	2,080	1,382	967	2,500	8,391
Mich. ....	1,761	1,567	1,210	1,446	1,616	825	1,435	3,645	13,505
Minn. ① ..	2,460	1,216	960	742	798	...	...	2,155	8,331
Miss. ① ..	1,140	702	468	117	628	321	...	...	3,376
Mo. ....	3,568	2,017	1,341	1,460	749	412	624	2,532	12,703
Mont. ....	668	382	164	311	360	315	...	...	2,200
Neb. ① ..	1,950	1,071	447	373	346	...	266	710	5,163
Nev. ① ..	29	87	88	128	86	...	...	...	418
N. H. ....	②	②	164	73	253	143	174	...	807
N. J. ① ..	436	1,082	848	1,230	1,828	1,140	830	1,219	8,613
N. M. ① ..	166	148	224	155	112	120	...	...	925
N. Y. ....	1,522	1,792	1,390	1,218	2,045	934	756	7,701	17,358
N. C. ① ..	1,608	1,132	620	568	691	372	941	...	5,932
N. D. ① ..	1,083	333	38	170	177	100	...	...	1,901
Ohio. ....	3,142	2,295	1,621	1,562	2,476	1,834	632	5,756	19,318
Okla. ① ..	1,925	1,620	762	902	876	354	...	1,205	7,644
Ore. ....	672	386	280	308	226	96	...	1,084	3,052
Penn. ① ..	2,242	2,835	3,218	2,938	3,710	1,168	1,669	4,051	21,831
R. I. ① ..	②	②	29	124	287	389	170	415	1,414
S. C. ① ..	745	704	404	406	316	260	455	...	3,290
S. D. ....	982	397	200	80	264	458	...	...	2,381
Tenn. ① ..	702	576	606	495	207	100	...	2,060	4,746
Tex. ....	2,292	3,328	2,504	2,331	2,106	989	987	3,554	18,091
Utah. ....	1,070	721	314	165	58	123	...	364	2,815
Vt. ....	155	185	50	151	159	...	...	...	700
Va. ① ..	691	586	432	345	475	448	193	829	3,999
Wash. ....	761	472	439	169	576	374	...	2,546	5,337
W. Va. ....	303	434	191	299	272	158	441	...	2,098
Wis. ① ..	749	888	432	471	396	205	593	...	3,734
Wyo. ....	194	268	60	125	228	...	...	...	875
D. C. ....	...	...	...	...	...	...	...	856	856
Total. ....	55,147	43,024	32,213	30,810	36,267	21,956	17,783	65,870	303,070

①—Estimated. Mileages for cities having over 100,000 population from "Automobile Facts and Figures," 1939 edition.

②—Towns and townships having 2,500 population or less considered rural; estimates of other places based on total populations of towns and townships.

# 57% of All Mileage Driven on Primary Highways



## Estimated Motor-Vehicle Travel on Various Highway Systems in the United States in 1939

Travel by Motor-Vehicle Owners Resident in—	IN MILLIONS OF VEHICLE-MILES			
	Primary rural Highways and Trans-City Connections	Secondary Highways and Local Rural Roads	City Streets	All Systems
Farms and unincorporated areas.	47,055.6	22,410.9	3,839.6	73,306.1
Incorporated places having a population of—				
1,000 or less . . . . .	11,369.2	3,390.0	876.0	15,635.2
1,001 to 2,500 . . . . .	11,945.1	2,377.3	2,104.5	16,426.9
2,501 to 10,000 . . . . .	22,810.7	3,351.5	7,239.8	33,402.0
10,001 to 25,000 . . . . .	17,427.1	2,196.6	7,914.1	27,537.8
25,001 to 100,000 . . . . .	21,465.1	2,355.3	14,642.3	38,462.7
100,001 or more . . . . .	30,330.1	2,434.7	50,212.0	82,976.8
Total . . . . .	162,402.9	38,516.3	86,828.3	287,747.5
Percent . . . . .	56.5	13.4	30.1	100

SOURCE: U. S. Public Roads Administration. Based on preliminary State-wide Highway Planning Survey data from road use surveys in 17 representative states for 1936 adjusted to 1939 on basis of gasoline consumption for highway use.

# Motor Vehicle Gasoline Consumption by States

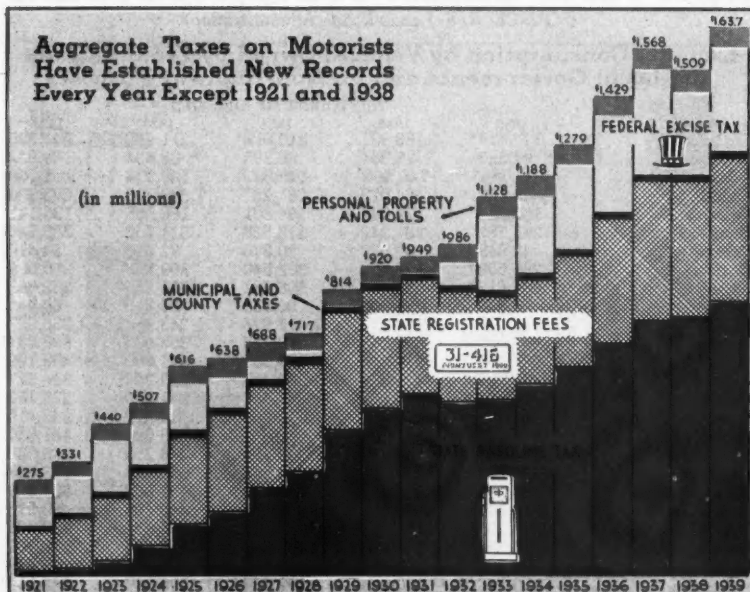
(SOURCE: U. S. Public Roads Administration)

Excludes Consumption by Vehicles Owned by Federal, State and Local Governments and for Non-Highway Purposes

State	THOUSANDS OF GALLONS				
	1935	1936	1937	1938	1939 <sup>①</sup>
Alabama.....	172,474*	188,931	210,673	211,492	241,375
Arizona.....	67,323	78,304	86,396	83,434	89,939
Arkansas.....	131,784*	140,566	149,880	148,974	155,709
California.....	1,340,137	1,464,072	1,561,258	1,549,106	1,673,780
Colorado.....	152,324	172,046	184,801	186,665	196,147
Connecticut.....	263,781	287,242	313,528	311,030	335,146
Delaware.....	42,948	47,677	50,878	52,428	54,410
Florida.....	256,609*	273,070	302,640	309,495	350,089
Georgia.....	264,617*	283,475	308,681	311,217	352,862
Idaho.....	63,743	74,700	80,570	80,313	88,444
Illinois.....	1,015,019	1,143,272	1,217,974	1,243,493	1,336,233
Indiana.....	472,010	520,103	570,186	555,993	598,734
Iowa.....	386,489	410,306	429,590	441,086	469,102
Kansas.....	295,308	316,438	333,498	333,260	334,577
Kentucky.....	201,324*	216,502	238,940	241,686	275,107
Louisiana.....	186,201*	201,392	221,204	214,289	247,419
Maine.....	114,532	127,306	137,649	135,037	141,850
Maryland.....	204,850	226,128	248,128	246,253	265,548
Massachusetts.....	584,233	625,629	664,561	653,293	683,733
Michigan.....	767,987	868,947	972,939	907,688	994,058
Minnesota.....	374,701	404,065	433,143	442,194	469,578
Mississippi.....	123,291	151,879	167,175	166,321	188,426
Missouri.....	498,350	548,168	566,614	575,836	620,791
Montana.....	77,393	90,459	90,983	88,126	98,919
Nebraska.....	199,165*	200,064	199,329	198,907	232,119
Nevada.....	24,046	28,052	30,203	30,079	33,618
New Hampshire.....	71,992	78,608	82,807	82,074	88,448
New Jersey.....	594,432	696,746	761,641	774,816	773,346
New Mexico.....	57,967	69,445	79,800	80,720	86,374
New York.....	1,495,863	1,613,016	1,702,621	1,703,407	1,768,288
North Carolina.....	305,579	335,097	373,317	374,063	410,340
North Dakota.....	78,877	79,570	88,647	87,890	82,694
Ohio.....	965,240	1,076,854	1,167,989	1,134,836	1,231,223
Oklahoma.....	299,593	330,992	344,027	353,135	365,735
Oregon.....	160,434	186,193	196,127	195,300	212,609
Pennsylvania.....	1,171,439*	1,225,894	1,353,491	1,322,570	1,476,077
Rhode Island.....	106,133	114,057	118,644	116,208	126,695
South Carolina.....	143,014*	152,959	173,360	174,573	206,953
South Dakota.....	96,531	96,750	97,347	100,572	101,972
Tennessee.....	216,386*	239,348	237,540	249,015	270,222
Texas.....	835,942	958,958	1,041,463	1,059,860	1,140,442
Utah.....	69,396*	69,013	75,720	81,643	94,349
Vermont.....	51,388*	55,880	61,887	60,395	67,137
Virginia.....	272,169	298,888	322,667	330,910	358,541
Washington.....	252,601	288,560	305,082	302,156	320,941
West Virginia.....	153,105	174,930	192,079	181,540	212,074
Wisconsin.....	405,909	452,709	484,315	475,050	507,776
Wyoming.....	47,445*	50,569	55,049	54,808	65,673
Dist. of Columbia.....	111,983	121,625	131,080	133,325	142,776
Total.....	16,264,077	17,855,454	19,218,121	19,146,561	20,638,398

\*These states do not provide for exemptions or refunds for non-highway uses, hence amounts entered include both highway and non-highway uses. ① 1939 data on gasoline consumption for highway purposes only are not available at time of going to press. These figures are "net amounts taxed at prevailing rates" which in 1938 were 398,060,000 gallons higher than the 19,146,561,000 gallons for strictly highway uses in United States, or only 2% higher.

# 1939 Motor Vehicle Taxes Set New Record



## \$1,636,549,000 Motor Taxes in 1939

	State Gross Registration Receipts ①	State Gasoline Tax (Net) ①	Municipal and County Taxes ①	Federal Excise Taxes ①	Personal Property and Tolls ①	Total
1921 .....	\$122,478,694	\$5,382,111	\$8,969,000	\$101,743,917	\$36,031,000	\$274,604,682
1922 .....	152,047,824	12,703,088	10,218,000	116,579,020	39,782,000	331,329,932
1923 .....	189,970,992	38,566,338	11,638,000	157,704,344	43,362,000	440,241,674
1924 .....	225,492,252	80,442,295	13,101,000	141,215,594	46,899,000	507,150,141
1925 .....	250,619,621	149,358,087	13,684,000	145,295,784	48,316,000	616,273,492
1926 .....	288,282,352	187,603,231	14,655,000	96,386,767	51,345,000	638,272,350
1927 .....	301,061,132	258,838,813	15,343,000	60,473,709	52,657,000	688,373,653
1928 .....	322,630,025	304,871,766	15,990,000	20,386,176	53,010,000	716,887,967
1929 .....	347,843,543	431,311,519	16,392,000	.....	53,608,000	849,155,052
1930 .....	355,704,860	493,865,117	16,555,000	.....	53,445,000	919,569,977
1931 .....	344,337,694	536,397,458	15,742,000	.....	52,258,000	948,735,112
1932 .....	330,005,109 ①	513,047,239	15,861,000	75,006,210	52,521,000	986,440,558
1933 .....	310,100,884	518,195,712	16,000,000	229,631,826	54,000,000	1,127,928,422
1934 .....	316,662,000	565,027,000	16,000,000	235,140,802	55,000,000	1,187,829,802
1935 .....	335,375,000	616,951,671	16,000,000	256,097,573	55,000,000	1,279,324,244
1936 .....	374,920,000	686,631,000	16,000,000	295,919,324	56,000,000	1,429,470,324
1937 .....	415,629,000	756,930,000	16,000,000	323,478,737	56,000,000	1,568,237,737
1938 .....	405,246,000	766,853,000	16,000,000	265,125,045	56,000,000	1,509,224,045
1939 .....	430,549,000	816,433,000	16,000,000	317,567,000	56,000,000	1,636,549,000

Total 1921-39 \$5,828,155,902 \$7,738,303,445 \$280,148,000 \$2,837,751,827 \$971,234,000 \$17,655,598,174

These are taxes on the motor vehicle owners. Income and property taxes on motor vehicle, body, parts and tire factories, garages, dealers, repair shops, terminals and truck, taxicab and bus operating companies are not included.

①—U. S. Public Roads Administration. ②—Estimated by Automobile Manufacturers Association based on "The Taxation of Motor Vehicles in 1932" by the U. S. Public Roads Administration, and other special surveys. ③—U. S. Bureau of Internal Revenue. Includes only 90% (i. e., motor vehicle portion) of Federal excise tax collections on gasoline and 52% (motor vehicle share) of lubricating oil. From 1921 to 1926 includes excise on for-hire vehicles. ④—Includes special motor carrier taxes from 1932 to date.
































































# Taxes Per Motor Vehicle in Use Reach New High

Increase 48 Per Cent During Last Ten Years

1921				\$27.51
1922				\$28.95
1923				\$30.97
1924				\$30.84
1925				\$33.74
1926				\$31.63
1927				\$32.74
1928				\$32.62
1929				\$35.88
1930				\$39.05
1931				\$41.50
1932				\$45.67
1933				\$50.76
1934				\$51.11
1935				\$53.21
1936				\$55.52
1937				\$57.83
1938				\$55.60
1939				\$58.15

# State Motor Vehicle Registration

(Preliminary figures subject to correction, compiled from state authorities by the

ALL COLUMNS IN THOUSANDS OF DOLLARS	MOTOR VEHICLE FEES				REGISTRATION FEES, OTHER VEHICLES		Total Regis- tration Fees, All Vehicles
	Total State Fees & Receipts	Total Cars and Trucks <sup>①</sup>	Pass. Cars	Motor Trucks	Trailers and Semi- Trailers	Motor Cycles	
State							
Alabama.....	4,947	4,186	3,160	1,026	52	4	4,242
Arizona.....	1,134	826	397	429	76	2	904
Arkansas.....	5,140	2,684	1,741	943	171	1	2,856
California <sup>①</sup> .....	24,646	21,503	16,880	4,623	1,064	66	22,633
Colorado.....	2,879	2,109	1,631	⑦478	35	2	2,146
Connecticut.....	6,738	4,456	2,947	1,509	21	6	4,483
Delaware.....	1,313	943	645	298	35	1	979
Florida.....	7,096	6,196	4,310	1,886	314	8	6,518
Georgia.....	2,630	1,612	1,075	537	218	2	1,832
Idaho.....	1,399	1,139	618	521	64	2	1,205
Illinois.....	24,352	21,152	14,705	6,446	199	17	21,368
Indiana.....	10,001	8,020	6,222	1,798	370	10	8,400
Iowa.....	12,624	11,674	8,818	2,856	106	10	11,790
Kansas.....	4,363	3,587	2,723	864	79	5	3,671
Kentucky.....	4,960	3,088	1,855	1,233	⑥	2	3,090
Louisiana.....	5,309	4,524	3,178	1,346	714	5	5,243
Maine.....	3,788	2,857	1,990	867	⑥70	4	2,931
Maryland.....	5,538	3,802	3,161	641	136	6	3,944
Massachusetts.....	7,028	4,304	2,857	1,447	20	1	4,325
Michigan.....	22,119	18,685	13,221	5,464	1,136	17	19,838
Minnesota.....	9,884	9,069	7,124	1,965	291	8	9,388
Mississippi.....	2,567	2,522	.....	.....	.....	.....	2,522
Missouri.....	10,226	8,690	7,279	1,411	156	12	8,858
Montana <sup>②</sup> .....	1,634	1,233	890	343	18	1	1,252
Nebraska.....	2,683	2,139	1,275	864	59	2	2,200
Nevada.....	286	262	164	98	6	1	269
New Hampshire.....	2,962	2,469	.....	.....	.....	4	2,473
New Jersey.....	21,312	14,841	10,401	4,140	337	10	14,888
New Mexico.....	1,909	1,601	1,025	576	47	1	1,649
New York.....	48,432	44,747	32,683	12,064	654	49	45,450
North Carolina.....	8,163	7,797	4,608	3,189	⑥	7	7,804
North Dakota.....	1,619	1,421	1,095	326	4	2	1,427
Ohio.....	26,625	23,259	15,142	8,117	1,308	42	24,609
Oklahoma.....	6,046	4,458	2,731	1,727	218	6	4,682
Oregon.....	3,469	2,729	1,568	1,161	⑥	5	2,734
Pennsylvania.....	36,563	28,680	19,955	8,725	458	31	29,169
Rhode Island.....	2,929	2,324	1,818	506	3	3	2,330
South Carolina.....	1,915	1,505	821	684	126	1	1,632
South Dakota.....	2,165	1,631	1,394	237	37	1	1,669
Tennessee.....	5,443	4,647	.....	.....	.....	.....	4,647
Texas.....	21,194	19,641	12,631	7,010	887	19	20,247
Utah.....	1,176	1,012	531	481	⑥	1	1,013
Vermont.....	2,490	2,069	1,472	⑥617	33	4	2,126
Virginia.....	6,847	5,740	4,328	1,412	150	6	5,896
Washington.....	4,560	2,563	1,420	1,143	252	6	2,821
West Virginia.....	5,974	4,734	3,630	1,104	58	5	4,797
Wisconsin.....	12,954	12,287	9,376	2,911	379	16	12,682
Wyoming.....	622	570	369	201	37	1	608
Wash'n, D. C. ....	1,851	1,270	862	408	20	3	1,293
Partial Totals <sup>③</sup> .....			236,727	96,632	10,118	418	
Full Totals.....	412,494	342,997	.....	.....	.....	.....	353,933

①—Receipts for registration periods ending not earlier than November 30 and not later than January 31 are considered calendar-year receipts. In those states where the registration period is definitely removed from the calendar year, registration receipts were obtained for the calendar-year period.

②—Segregation of registration fees by type of vehicle was not available for Mississippi, New Hampshire, and Tennessee. Total motor-vehicle registration fees in those states include trailer and motorcycle fees except in New Hampshire, for which motorcycle fees were reported separately. Dealers' license fees in Tennessee and the District of Columbia are also included in this column.

③—Proceeds of special excise and privilege taxes on new car sales have been included. Receipts from a 2 percent motor-vehicle excise tax in Oklahoma, imposed as a part of a general sales tax, are not included in this table. Proceeds of this tax were \$1,188,000 in 1939. Includes special titling taxes—Kentucky \$1,099,000; Maryland \$644,000; North Dakota \$19,000; South Dakota \$439,000; West Virginia \$648,000.

④—Includes estimated service charges, totaling \$2,547,000, collected and retained by local officials in four states. In other states allowing such charges they are included in registration and other fees.

# Revenues Total \$412,494,000 In 1939

United States Public Roads Administration, calendar year except as noted<sup>(1)</sup>

## MISCELLANEOUS RECEIPTS

Total	Dealers' Licenses and Plates	Oper. and Chauff. Permits	Certificates of Title <sup>(2)</sup>	Fines and Penalties	Transfer or Registration Fees	Other Receipts <sup>(3)</sup>	Unclassified Refunds	
705	3	524	.....	168	.....	10	.....	Alabama
230	5	25	70	5	13	112	.....	Arizona
234	87	183	.....	3	8	3	.....	Arkansas
2,013	83	111	.....	181	1,378	260	.....	California <sup>(4)</sup>
733	29	344	173	38	81	68	.....	Colorado
2,285	109	1,752	.....	147	128	125	-6	Connecticut
334	7	142	40	104	17	24	.....	Delaware
578	23	210	213	.....	1	131	.....	Florida
788	13	734	.....	.....	9	32	.....	Georgia
194	23	129	32	.....	.....	10	.....	Idaho
2,984	94	1,668	512	2	505	232	-29	Illinois
1,601	49	874	324	32	342	318	-136	Indiana
834	62	635	.....	.....	215	12	-90	Iowa
692	31	372	127	113	24	25	.....	Kansas
1,870	23	528	1,099	4	202	14	.....	Kentucky
66	11	110	.....	.....	.....	5	-60	Louisiana
857	89	595	38	24	139	42	.....	Maine
1,594	45	312	840	283	125	42	-53	Maryland
2,703	66	2,629	.....	2	.....	70	-64	Massachusetts
2,281	91	854	760	.....	319	237	.....	Michigan
496	58	177	.....	112	.....	149	.....	Minnesota
45	3	.....	.....	36	.....	6	.....	Mississippi
1,368	83	457	455	2	306	65	.....	Missouri
382	19	180	66	70	41	6	.....	Montana <sup>(5)</sup>
483	29	298	51	.....	72	36	-3	Nebraska
17	2	.....	.....	1	12	2	.....	Nevada
489	24	367	.....	51	47	.....	.....	New Hampshire
6,424	71	4,923	599	234	562	985	-10	New Jersey
260	10	155	27	1	.....	67	.....	New Mexico
2,982	203	904	.....	463	1,077	359	-24	New York
359	33	130	168	67	.....	12	-51	North Carolina
192	15	98	76	.....	.....	3	.....	North Dakota
4,016	246	776	513	60	678	1,743	.....	Ohio
1,364	45	605	287	.....	.....	427	.....	Oklahoma
735	25	473	168	24	.....	25	.....	Oregon
7,394	396	3,140	2,053	12	1,460	376	-33	Pennsylvania
599	17	441	.....	.....	87	54	.....	Rhode Island
283	26	199	.....	27	27	43	-39	South Carolina
496	.....	.....	465	.....	.....	12	.....	South Dakota
796	19	568	.....	108	.....	121	-1	Tennessee
947	39	417	.....	.....	334	157	.....	Texas
163	13	22	72	1	21	34	.....	Utah
364	27	289	.....	.....	51	7	-10	Vermont
951	61	384	298	.....	173	37	-2	Virginia
1,739	14	1,284	146	33	87	175	.....	Washington
1,177	45	268	798	.....	56	10	.....	West Virginia
272	10	35	.....	.....	216	11	.....	Wisconsin
14	8	.....	.....	.....	5	1	.....	Wyoming
558	⑥	262	83	.....	35	178	.....	Wash'n, D. C.
59,961	2,444	28,443	10,983	2,408	8,906	6,918	-611	Partial Totals <sup>(6)</sup>
								Full Totals

①—Registration Fees include proceeds of state "vehicle license fees", \$10,994,000, imposed in addition to the regular registration fees of \$11,639,000.

②—Included with Motor Truck fees.

③—Fees of 25,934 Light trucks included with those of passenger vehicles.

④—Trailers of 1,000 pounds capacity or more prohibited on highways, although permitted in cities under city licenses. Tractor-semitrailers registered as motor trucks. Light trailers permitted but not registered.

⑤—Fees of light trailers and commercial semitrailers only. Fees of commercial full trailers included with those of motor trucks.

⑥—Registration fees are collected by counties and state does not maintain complete record. Figures given are estimates supplied by state.

⑦—Included with motor-vehicle registration fees.

⑧—Fees of trucks under 1,500 pounds capacity included with those of passenger cars.

⑨—Included with passenger car fees.

⑩—Totals of columns for which fully classified data were not available for all states.

# State Motor Vehicle Fees and Gasoline Taxes

(Figures from United States Public Roads Administration)

In Thousands of Dollars

	Gasoline Taxes				Registration Fees Including Special Motor Carrier Taxes		
	1937	1938	1939	Total 1919 to 1939	1937	1938	1939
Alabama.....	\$13,295	\$13,523	\$14,415	\$128,392	\$4,655	\$4,515	\$5,199
Arizona.....	4,325	4,243	4,445	43,831	1,305	1,242	1,321
Arkansas.....	9,877	10,004	10,647	106,464	3,243	2,909	3,143
California.....	46,614	47,101	49,795	542,634	27,051	26,665	27,678
Colorado.....	7,431	7,465	7,751	86,473	3,224	3,138	3,607
Connecticut.....	9,445	9,192	9,910	84,189	6,902	6,864	7,012
Delaware.....	2,031	2,069	2,143	18,622	1,202	1,216	1,313
Dist. of Col....	2,724	2,509	2,784	28,324	1,097	2,361	2,064
Florida.....	22,023	22,801	24,323	240,843	6,458	6,707	7,433
Georgia.....	19,550	19,633	21,054	200,917	2,523	2,048	2,706
Idaho.....	4,035	4,088	4,467	40,464	2,604	2,460	1,459
Illinois.....	35,836	36,481	39,000	335,782	21,430	21,591	24,352
Indiana.....	22,987	22,259	23,825	255,663	10,509	10,402	11,223
Iowa.....	13,023	13,233	13,971	148,563	12,455	12,334	13,182
Kansas.....	10,083	10,017	10,023	114,555	5,700	4,990	5,676
Kentucky.....	12,671	12,528	13,834	135,127	5,519	4,929	5,253
Louisiana.....	15,923	16,543	17,381	134,899	4,713	4,903	5,402
Maine.....	5,550	5,558	5,722	60,951	3,887	3,601	3,806
Maryland.....	9,857	9,929	10,638	107,528	5,577	5,069	5,538
Massachusetts.....	19,836	20,194	20,512	181,851	6,930	6,858	7,168
Michigan.....	29,425	27,724	29,830	312,096	22,488	21,283	22,584
Minnesota.....	15,293	19,380	18,646	157,372	8,890	9,417	9,925
Mississippi.....	10,222	10,181	11,309	105,759	2,406	4,130	2,683
Missouri.....	11,082	11,502	12,096	131,713	10,159	9,931	11,020
Montana.....	4,581	4,452	4,800	46,392	1,578	1,588	1,695
Nebraska.....	10,925	11,026	11,481	117,243	2,630	2,489	2,711
Nevada.....	1,177	1,201	1,336	12,175	480	458	509
New Hampshire.....	3,286	3,297	3,508	36,723	2,351	2,714	2,965
New Jersey.....	21,565	22,294	23,006	205,139	19,362	20,278	21,412
New Mexico.....	4,003	4,066	4,295	38,669	1,697	1,820	2,102
New York.....	61,841	66,132	69,693	517,373	52,901	47,124	48,432
No. Carolina.....	22,429	23,300	24,532	233,782	9,106	7,464	8,528
No. Dakota.....	2,873	2,254	2,648	29,935	1,604	1,540	1,655
Ohio.....	46,538	45,982	50,466	508,987	26,127	27,673	29,147
Oklahoma.....	13,768	13,905	14,206	162,572	6,855	7,243	7,548
Oregon.....	9,799	9,846	10,591	104,725	4,472	3,991	4,688
Pennsylvania.....	55,711	51,914	59,584	533,102	38,340	34,526	36,571
Rhode Island.....	3,090	3,492	4,027	28,826	2,799	2,788	2,940
So. Carolina.....	10,901	11,254	12,297	117,965	1,879	1,863	2,171
So. Dakota.....	4,071	4,048	3,956	52,325	2,134	2,460	2,618
Tennessee.....	17,914	18,276	18,756	177,750	4,602	4,571	5,627
Texas.....	41,671	42,720	45,189	420,112	19,793	20,371	21,309
Utah.....	3,421	3,522	3,735	36,391	1,162	1,106	1,176
Vermont.....	2,323	2,530	2,679	26,479	2,410	2,365	2,490
Virginia.....	16,114	16,620	17,831	175,140	6,353	6,387	7,177
Washington.....	15,268	15,421	15,994	151,630	4,647	3,451	4,755
West Virginia.....	8,488	9,386	10,409	87,372	6,253	5,577	6,077
Wisconsin.....	19,537	19,253	20,271	192,185	14,543	15,015	14,629
Wyoming.....	2,498	2,505	2,622	23,812	824	821	870
Total.....	\$756,930	\$766,853	\$816,433	\$7,739,816	\$415,829	\$405,246	\$430,549

# \$816,433,000 State Gasoline Taxes in 1939

(Compiled for calendar year from reports of state authorities, by the  
U. S. Public Roads Administration)

## IN THOUSANDS OF DOLLARS RECEIPTS FROM TAXATION OF MOTOR FUEL OTHER RECEIPTS IN CONNECTION WITH MOTOR-FUEL TAX

State	Gross Receipts	Refunds Paid	Net Receipts	Distributors' & Dealers' Licenses	Inspection Fees <sup>①</sup>	Fines and Penalties	Miscellaneous Receipts <sup>②</sup>	Total	Net Total Receipts
Ala.	14,415		14,415		61			61	14,476
Aris.	5,189	744	4,445	*		1		1	4,446
Ark.	10,647		10,647		95	*		95	10,742
Calif.	54,353	4,558	49,795	15			1	16	49,811
Colo.	8,961	1,210	7,751						7,751
Conn.	10,142	232	9,910	51				51	9,961
Del.	2,288	145	2,143	3				3	2,146
Fla.	24,323		24,323	34	410			444	24,767
Ga.	21,054		21,054	34				34	21,088
Idaho.	4,892	425	4,467	*			1	1	4,468
Ill.	42,296	3,296	39,000		399	1		400	39,400
Ind.	25,845	2,020	23,825	*	492		1	493	24,318
Iowa.	16,432	2,461	13,971	62				62	14,033
Kan.	10,023		10,023	15	106		35	156	10,179
Ky.	13,834		13,834			2		2	13,836
La.	17,381		17,381		82	*		82	17,463
Me.	5,946	224	5,722			*		*	5,722
Md.	11,447	809	10,638			*		*	10,638
Mass.	21,548	1,036	20,512			*		*	20,512
Mich.	31,409	1,579	29,830	5		7		12	29,842
Minn.	21,216	2,870	18,346	1	160	2	4	167	18,513
Miss. <sup>③</sup>	11,735	426	11,309						11,309
Mo.	12,757	661	12,096		131	7		138	12,234
Mont.	5,887	1,087	4,800		7			7	4,807
Neb.	11,739	258	11,481	9	112		33	154	11,635
Nev.	1,431	95	1,336	*	23	*		23	1,359
N. H.	3,643	135	3,508			*		*	3,508
N. J.	25,162	2,156	23,006	61		1		62	23,068
N. M.	4,758	463	4,295	25				25	4,320
N. Y.	72,138	2,445	69,693	64			*	64	69,757
N. C.	25,149	617	24,532		1,017		7	1,024	25,556
N. D.	3,433	785	2,648	1	66		21	88	2,736
Ohio.	52,656	2,190	50,466			5		5	50,466
Okl.	14,953	747	14,206		284	*		289	14,495
Ore.	12,010	1,419	10,591			*		*	10,591
Pa.	59,584		59,584			6		6	59,590
R. I.	4,257	230	4,027	4				4	4,031
S. C.	12,562	265	12,297		250			250	12,547
S. D.	5,140	1,184	3,956		67			67	4,023
Tenn.	18,853	97	18,756		1,018		58	1,076	19,832
Texas.	52,409	7,220	45,189				19	19	45,208
Utah.	3,735		3,735	1		*	*	1	3,736
Vt.	2,679		2,679			*		*	2,679
Va.	19,005	1,174	17,831	*		1		1	17,832
Wash.	17,227	1,233	15,994	3			9	12	16,006
W. Va.	10,560	151	10,409	14				14	10,423
Wisc.	21,949	1,678	20,271		167			167	20,438
Wyo.	2,622		2,622	2				2	2,624
D. of C.	2,805	21	2,784	7				7	2,791
Total...	864,479	48,046	816,433	411	4,947	33	189	5,580	822,013

\*—Indicate amounts less than \$500.

- ①—Fees for inspection of motor-vehicle fuel. Wherever possible, fees for inspection of kerosene and other non-motor-vehicle fuels have been eliminated.
- ②—Includes fees for motor-fuel carrier permits, refund or exemption permits, and miscellaneous unclassified receipts.
- ③—Receipts from tax on lubricating oil, \$853,000, not included in this table.
- ④—Special county taxes of 3 cents per gallon in Hancock County and 2 cents per gallon in Harrison County, amounting to \$175,000 in 1939, are imposed for seawall protection and are not included in this table.

# 1939 State Motor Retail Sales Taxes \$76,000,000

	New Cars	New Trucks	Used Motor Vehicles	Parts and Accessories	Tires and Tubes	Lubricating Oil	Total
Ala...	\$125,540	\$50,966	\$127,905	\$227,945	\$94,746	①	\$627,102
Ariz...	143,179	44,901	128,028	96,776	40,226	\$37,585	490,695
Ark...	326,482	157,136	348,708	178,594	74,234	67,109	1,152,263
Calif.	5,119,124	724,269	3,840,768	2,899,213	1,205,082	1,046,754	14,835,210
Colo...	408,365	102,201	366,780	254,837	105,925	84,088	1,322,196
Ill....	4,602,858	628,247	3,934,584	2,069,508	860,208	840,247	12,935,652
Iowa...	963,009	205,471	862,932	566,258	235,370	198,699	3,031,739
Kan...	569,560	120,768	501,192	428,080	177,935	150,126	1,947,661
La....	272,695	711,276	244,590	131,136	54,508	48,266	1,462,471
N.Orl.	57,167	93,765	47,454	26,959	11,206	9,924	246,475
Mich...	3,824,379	432,332	3,252,978	1,248,637	519,006	613,338	9,890,670
Miss...	183,545	72,436	184,644	164,488	68,371	74,924	748,408
Mo...	1,242,621	275,132	1,116,516	650,718	270,476	259,401	3,814,864
N. M...	35,588	8,285	②	90,238	37,508	①	171,619
N.Y.C.	662,963	101,507	566,899	686,122	285,192	269,349	2,572,032
N. C...	692,400	193,005	1,062,486	622,740	258,847	①	2,829,478
N. D...	161,979	47,018	150,540	131,371	54,577	39,592	585,077
Ohio...	3,955,289	553,709	3,421,116	2,100,005	872,885	766,802	11,669,806
Okla...	655,431	175,202	597,900	409,495	170,210	①	2,008,238
S. D...	③	③	③	210,558	87,520	①	298,078
Utah...	173,858	54,491	156,864	98,545	40,961	36,778	561,497
Wash...	667,153	148,306	546,277	440,882	183,256	153,128	2,139,002
W. Va...	③	③	③	273,769	113,794	112,447	500,010
Wyo...	121,671	39,283	112,872	61,868	25,716	24,689	386,099
Total.	\$24,964,856	\$4,939,706	\$21,572,033	\$14,068,742	\$5,847,759	\$4,833,246	\$76,226,342

The above estimates were not furnished by the states, but indicate the probable revenue collected by each state having retail sales taxes, by applying its rate of tax to the estimated retail volume of each class of sales. The latter for "New Cars" and "New Trucks" was obtained by multiplying each state's new car and truck registration by an estimated average unit value. There were assumed to have been twice as many used vehicle sales.

For "Parts and Accessories," the country's wholesale volume, based on the Federal Excise Tax revenue, was given an estimated mark-up for the retail value and prorated to each state in the ratio of its registration to the total U. S. registration.

For "Tires and Tubes," the Rubber Manufacturers Association figures for wholesale volume were marked-up and prorated also according to the number of cars in use.

For "Lubricating Oil," the American Petroleum Institute figures of each state's gasoline consumption by road vehicles were made the basis, using an estimated ratio of oil to gasoline used and an assumed average retail sales price per gallon.

No attempt has been made to estimate general sales taxes on other automotive products or services such as second-hand parts, repairs, garaging, etc.

①—Lubricating oil, exempt from sales tax. ②—Sales of used vehicles exempt from sales tax. ③—Sales tax included in registrations.



# Motor Taxes Diverted to Non-Highway Uses

MILLIONS OF DOLLARS

0 50 100 150 200 250



## EXPENDITURES FOR MAINTENANCE OF STATE HIGHWAY SYSTEMS

## STATE MOTOR VEHICLE TAXES DIVERTED TO NON-HIGHWAY PURPOSES

The diversion of state motor vehicle taxes (1938) to non-highway purposes totaled \$157,516,000, which was equivalent to 69% of all maintenance expenditures on the state highway systems (\$227,711,000) for the same year.

## Distribution of State Motor Vehicle Taxes

(SOURCE: U. S. Public Roads Administration)

(In Thousands of Dollars)

Year	Collection and Administration	State Highway Purposes	Local Roads and Streets	Debt Service	Non-Highway Use Amount	% of Total	Total
1925.....	\$11,961	\$277,348	\$84,234	\$24,977	\$7,179	1.8	\$405,699
1926.....	16,350	320,831	101,288	30,513	6,903	1.5	475,885
1927.....	15,376	374,738	112,815	47,968	8,793	1.6	559,690
1928.....	15,875	422,034	127,481	49,446	12,046	1.9	626,882
1929.....	18,226	523,307	166,164	56,556	14,697	1.9	778,950
1930.....	20,319	565,037	177,266	67,359	20,160	2.4	850,141
1931.....	23,065	559,794	190,198	85,063	23,600	2.7	881,720
1932.....	20,707	464,873	186,286	89,738	76,747	9.2	838,351
1933.....	27,025	407,507	189,480	99,518	91,577	11.2	815,107
1934.....	28,975	381,985	215,071	135,536	122,150	13.8	883,717
1935.....	31,760	389,364	230,424	141,745	147,143	15.6	940,436
1936.....	37,942	435,116	256,461	159,132	169,344	16.0	1,057,995
1937.....	42,529	557,364	265,737	168,089	161,413	13.5	1,195,132
1938.....	43,978	685,976	280,037	①	157,516	13.4	②1,175,205

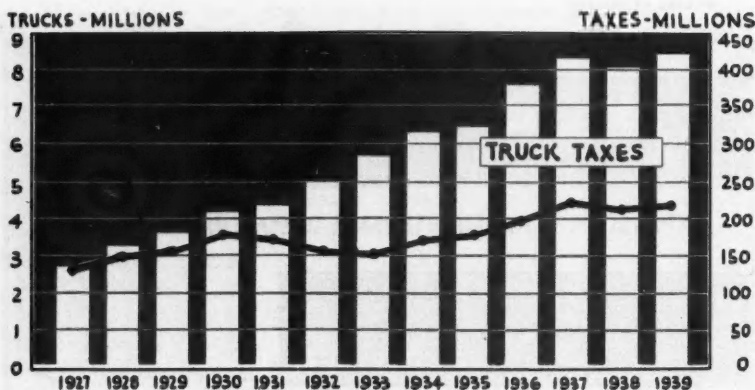
NOTE:—Taxes include state motor vehicle registration receipts, special motor carrier taxes, and gas taxes.

①—Included in columns for state and local purposes.

②—Includes \$7,698,000 for "park and forest roads."



# 1939 Motor Truck Taxes Set New High Record



## Special Taxes on Trucks Total \$432,403,000 in 1939

Personal property taxes on trucks in operation, income and property taxes on garages, terminals, repair shops, and trucking companies are not included.

In Thousands of Dollars

Year	Registration Fees (State)	Motor Carrier and Trailer Fees (State)	Gasoline Tax (State)	Federal Excise Taxes	Special City & County Taxes <sup>①</sup>	Total Special Taxes	Average Per Truck Registered
1927	\$64,691	\$ 1,005	\$ 75,108	.....	\$ 6,000	\$146,804	\$ 50.53
1928	69,400	1,402	87,161	.....	6,400	164,363	52.86
1929	72,823	1,607	108,506	.....	6,800	189,736	56.28
1930	78,789	1,955	138,055	.....	7,200	225,999	64.91
1931	76,616	2,758	144,756	.....	7,600	231,730	67.15
1932	74,046	8,577 <sup>①</sup>	139,376	\$19,510	8,000	249,509	77.44
1933	68,659	11,683	142,287	59,459	8,750	290,838	90.46
1934	71,852	13,906	154,170	60,516	9,000	309,444	90.86
1935	78,598	17,998	161,743	65,598	10,000	333,937	91.63
1936	89,160	22,199	191,455	75,445	10,500	388,759	98.01
1937	95,115	24,966	208,783	82,508	11,000	422,372	99.75
1938	95,461	25,270	206,791	67,835	11,176	406,533	96.74
1939	101,786	26,618	216,434	75,889	11,676	432,403	98.50

<sup>①</sup>Includes special motor carrier taxes from 1932 to date. Prior to 1932 Trailer fees only are shown

<sup>②</sup>Includes tolls on bridges, ferries and tunnels.

SOURCE: First three columns from Public Roads Administration; Federal excise taxes based on reports of Bureau of Internal Revenue; and special city and county taxes are estimates by Automobile Manufacturers Association.

# Special Motor Truck Taxes by States—1939

## Personal Property and Other General Taxes Are Excluded

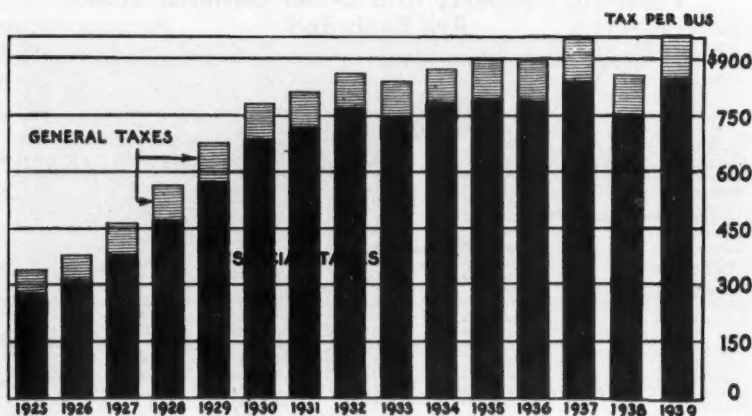
(SOURCE: Estimates made by the Automobile Manufacturers Association based on 1939 data of the U. S. Public Roads Administration)

States	License Fees <sup>①</sup> (State)	Gasoline Taxes <sup>②</sup> (State)	Federal Excise Tax <sup>③</sup>	County and Municipal <sup>④</sup>	Total
Alabama	\$1,279,000	\$4,240,080	\$1,103,210	\$504,624	\$7,126,914
Arizona	707,000	1,444,980	413,288	.....	2,565,268
Arkansas	1,115,000	4,709,094	1,082,045	120,295	7,026,434
California	8,422,000	10,905,984	5,108,796	259,328	24,696,108
Colorado	1,303,000	2,719,552	572,326	51,894	5,042,772
Connecticut	1,783,000	2,848,556	1,226,992	.....	5,860,448
Delaware	346,000	824,256	192,772	.....	1,063,028
Florida	2,540,000	6,152,244	1,285,697	34,461	10,012,402
Georgia	829,000	5,900,472	1,487,218	31,164	8,217,854
Idaho	680,000	1,890,720	542,956	.....	3,113,276
Illinois	6,801,000	8,036,892	3,866,131	1,816,200	20,520,223
Indiana	3,008,000	6,599,008	2,387,281	107,881	12,062,170
Iowa	3,499,000	3,296,700	1,614,853	8,662	8,419,215
Kansas	2,141,000	3,950,176	1,641,972	.....	7,733,148
Kentucky	2,002,000	4,187,100	1,216,601	174,472	7,580,173
Louisiana	2,071,000	6,489,852	1,322,983	773,352	10,627,187
Maine	968,000	2,076,576	739,521	.....	3,784,097
Maryland	918,000	2,865,024	1,025,953	.....	4,809,977
Massachusetts	1,566,000	3,826,080	1,854,505	.....	7,246,585
Michigan	7,255,000	5,238,108	2,538,442	.....	15,031,550
Minnesota	2,296,000	5,691,696	2,007,045	21,454	10,016,195
Mississippi	762,000 <sup>⑤</sup>	4,110,984	1,020,169	87,732	5,980,885
Missouri	2,133,000	3,398,616	2,456,328	1,037,744	9,025,688
Montana	421,000	2,632,380	753,524	4,093	3,810,997
Nebraska	991,000	3,781,560	1,064,828	19,256	5,856,644
Nevada	287,000	383,560	137,681	.....	824,758
New Hampshire	649,000 <sup>⑤</sup>	1,375,594	488,811	1,377	2,514,972
New Jersey	4,710,000	4,812,696	2,275,754	.....	11,798,450
New Mexico	810,000	1,709,280	501,619	25,609	3,046,508
New York	12,718,000	15,901,536	5,650,359	.....	34,269,895
North Carolina	3,511,000	6,260,328	1,552,832	48,705	11,372,865
North Dakota	364,000	1,427,076	570,180	.....	2,361,256
Ohio	10,073,000	8,396,976	3,071,474	62,787	21,604,237
Oklahoma	3,520,000	4,712,256	1,684,240	.....	9,916,496
Oregon	2,310,000	3,764,940	1,067,371	53,367	7,195,678
Pennsylvania	9,820,000	12,068,208	4,359,488	.....	26,247,694
Rhode Island	519,000	709,164	342,125	.....	1,570,289
South Carolina	1,040,000	3,148,344	780,809	7,770	4,976,923
South Dakota	818,000	1,488,528	514,605	1,898	2,793,031
Tennessee	1,133,000 <sup>⑤</sup>	5,632,452	1,195,091	224,627	8,185,170
Texas	7,705,000	16,110,768	5,738,859	.....	29,554,627
Utah	524,000	1,018,320	376,682	17,830	1,936,832
Vermont	650,000	459,648	181,927	814	1,292,389
Virginia	1,868,000	4,195,080	1,246,578	132,429	7,464,487
Washington	1,649,000	5,129,640	1,440,737	21,133	8,240,510
West Virginia	1,427,000	2,897,340	854,284	.....	5,178,624
Wisconsin	5,304,000	6,859,536	2,391,289	14,604	14,569,429
Wyoming	458,000	860,640	313,921	3,947	1,636,508
District of Columbia	671,000	329,232	252,674	.....	1,252,906
Total	\$129,404,000	\$216,433,822	\$75,888,724	\$5,676,226	\$426,402,772
Total (Including bridge, tunnel and ferry tolls not segregated by States \$5,000,000 <sup>⑤</sup> )	.....	.....	.....	.....	\$432,402,772

### NOTES:

- ①—Includes motor carrier taxes, titling, and trailer fees, but omits dealers, operators, chauffeurs' licenses and miscellaneous receipts.
- ②—Estimated by multiplying United States average tax per truck for those states segregating truck taxes by the number of trucks registered.
- ③—Estimated by multiplying the trucks registered in each state by a yearly average consumption of 1,200 gallons per truck by the gas tax effective in that state.
- ④—U. S. totals from Bureau of Internal Revenue: excise tax on sales of new trucks distributed by states according to Polk's new truck registrations; excises on truck share of parts, gasoline, lubricating oil and tires distributed by states according to total truck registrations.
- ⑤—1939 estimates based on data contained in "Taxation of Motor Vehicles in 1932" by the Public Roads Administration.

# Special Taxes Per Bus Tripled Since 1925



## Revenue Buses Paid \$43,438,000 Special Taxes, 1939

(Figures from National Association of Motor Bus Operators)

Year	Special Taxes	General Taxes*	Total Bus Taxes*	Special Taxes Per Bus	General Taxes Per Bus	Total Taxes Per Bus	Special Tax Per Bus Per Mile of Highway Used
1925 .....	\$10,300,000	\$2,300,000	\$12,600,000	\$274.29	\$61.25	\$335.54	\$49.24
1926 .....	13,100,000	3,000,000	16,100,000	311.65	71.37	383.02	55.36
1927 .....	16,800,000	3,300,000	20,100,000	386.33	75.89	462.22	64.28
1928 .....	21,200,000	3,800,000	25,000,000	474.61	85.07	559.68	74.16
1929 .....	26,500,000	4,500,000	31,000,000	576.04	97.82	673.86	81.25
1930 .....	31,200,000	4,900,000	36,100,000	677.00	106.32	783.32	90.87
1931 .....	32,525,000	4,125,000	36,650,000	716.41	90.86	807.27	88.62
1932 .....	34,900,000	4,150,000	39,050,000	766.67	92.22	858.89	90.93
1933 .....	33,470,000	4,030,000	37,500,000	743.77	89.56	833.33	81.64
1934 .....	33,300,000	3,980,000	37,280,000	774.42	92.56	866.98	82.91
1935 .....	35,625,000	4,750,000	40,375,000	791.66	105.56	897.22	89.05
1936 .....	38,475,500	5,125,500	43,601,000	785.22	104.60	889.82	97.18
1937 .....	43,231,000	5,761,000	48,992,000	839.43	111.87	951.30	109.90
1938 .....	38,945,096	5,156,825	43,701,912	748.95	100.13	848.58	101.48
1939 .....	43,438,000	5,811,500	49,250,000	842.64	112.74	955.38	121.10

\*Does not include income and excess profits taxes.

# Motorists Pay 1 Out of 9 Tax Dollars in U. S.



SOURCE: Estimate of \$13,800,000,000 in all federal, state and local 1939 taxes from the National Industrial Conference Board. Motor vehicle user taxes of \$1,636,549,000 from U. S. Public Roads Administration, U. S. Treasury Department, and other sources.

## Automotive Products Pay 73% of All Federal Manufacturers' Excise Taxes

(SOURCE: U. S. Bureau of Internal Revenue)

	Motor Vehicles	Parts and Accessories	Rubber Tires and Tubes	Gasoline (90% of Total)	Lubricating Oil (Auto Share)	Total	Percent of all Manu- facturers' Excises
1932..	\$4,941,418	\$1,900,111	\$7,545,071	\$56,555,844	\$4,063,766	\$75,006,210	...
1933..	25,522,713	4,443,071	23,836,119	163,013,389	12,816,534	229,631,826	66.2
1934..	36,794,723	5,886,002	24,704,077	153,098,342	14,657,658	235,140,802	68.9
1935..	48,936,723	7,019,009	28,102,446	155,036,233	17,003,162	256,097,573	67.1
1936..	64,520,269	8,747,945	38,241,552	167,887,796	16,521,762	295,919,324	70.9
1937..	73,533,538	9,619,926	40,088,004	182,722,842	17,514,427	323,478,737	68.4
1938..	34,635,422	7,067,611	26,771,719	180,792,717	15,857,576	265,125,045	68.5
1939..	58,208,457	8,956,584	41,131,327	193,695,592	15,574,646	317,566,606	73.4

# 1939 Gasoline Consumption Sets Record

(SOURCE: U. S. Public Roads Administration)

Nearly All States Above 1938, Average Increase 5.8%  
In Thousands of Gallons

State	Tax Rate Per Gallon Cents	Gross Amount Reported ①	Amount Exempted From Payment of Tax ②	Gross Amount Assessed for Taxation	Amount Subject to Refund of Entire Tax	NET AMOUNT TAXES				
						Total	At Pre- vailing Rate 1939	At Pre- vailing Rate 1938	1939 % Inc.	
Ala. ....	6	241,375		241,375		241,375	241,375	226,838	6.4	
Aris. ....		107,475	5,167	102,308	12,369	89,939	89,939	84,534	6.4	
Ark. ....	6.5	181,922	7,312	174,610		174,610	155,709	143,479	8.5	
Calif. ....	3	1,852,859	27,148	1,825,711	151,931	1,673,780	1,673,780	1,571,928	6.5	
Colo. ....	4	237,669	8,508	229,161	33,014	196,147	196,147	187,944	4.4	
Conn. ....	3	351,315	8,447	342,868	7,722	335,146	335,146	312,710	7.2	
Del. ....	4	59,316	1,269	58,047	3,637	54,410	54,410	52,490	3.7	
Fla. ....	7	363,710	13,621	350,089		350,089	350,089	326,838	7.1	
Ga. ....	6	362,403	9,541	352,862		352,862	352,862	328,921	7.3	
Ida. ....	⑤ 1	100,802	3,635	97,167		97,167	⑧ 88,444	81,888	8.0	
Ill. ....	3	1,448,697		1,448,697	112,464	1,336,233	1,336,233	1,256,016	6.4	
Ind. ....	4	651,249	2,016	649,233	50,499	598,734	598,734	562,879	6.4	
Iowa. ....	3	550,333		550,333	81,231	469,102	469,102	445,906	5.2	
Kan. ....	3	467,296	132,719	334,577		334,577	334,577	337,527	-0.9	
Ky. ....	5	275,107		275,107		275,107	275,107	256,516	7.2	
La. ....	7	261,304	6,228	255,076	5	255,071	247,419	234,941	5.3	
Me. ....	4	150,136	831	149,305		149,305	141,850	137,406	3.2	
Md. ....	4	291,666	4,106	287,560	19,633	267,927	265,548	246,433	7.8	
Mass. ....	3	721,112	2,829	718,283	34,550	683,733	683,733	662,254	3.2	
Mich. ....	3	1,146,327	99,589	1,046,738	52,381	994,357	994,058	928,920	7.0	
Minn. ....	4	559,186	25,686	533,500	63,922	469,578	469,578	447,444	4.8	
Miss. ....	6	205,963	9,032	196,931		196,931	188,426	171,044	10.2	
Mo. ....	2	653,611		653,611	32,820	620,791	620,791	581,086	6.8	
Mont. ....	5	128,980	8,497	120,483	21,564	98,919	98,919	89,450	10.6	
Neb. ....	5	242,721	10,515	232,206	6	232,200	232,119	223,309	3.9	
Nev. ....	4	39,258	2,494	36,764	2,370	34,394	33,618	29,958	12.2	
N. H. ....	4	91,831		91,831	3,383	88,448	88,448	82,714	6.9	
N. J. ....	3	849,139	3,055	846,084	72,738	773,346	773,346	742,435	4.2	
N. M. ....	5	102,064	6,349	95,715	9,270	86,445	86,374	81,521	6.0	
N. Y. ....	4	1,900,715	69,381	1,831,334	63,046	1,768,288	1,768,288	1,684,672	5.0	
N. C. ....	6	430,291	7,597	422,694		422,694	410,340	385,834	6.4	
N. D. ....	④ 4	130,238	27,652	102,586	19,992	82,694	⑤ 82,694	85,775	-3.6	
Ohio. ....	4	1,371,266	68,887	1,302,379	11,494	1,290,885	1,231,223	1,157,015	6.4	
Okla. ....	4	421,496	39,967	381,529	15,794	365,735	365,735	350,190	4.4	
Ore. ....	5	245,746	5,298	240,448	26,912	213,536	212,609	197,797	7.5	
Pa. ....	4	1,482,428	6,351	1,476,077		1,476,077	1,476,077	1,397,068	5.7	
R. L. ....	3	129,878	1,196	128,680	1,985	126,695	126,695	116,874	8.4	
S. C. ....	6	210,980		210,980	4,027	206,953	206,953	188,783	9.6	
S. D. ....	4	136,628	4,934	131,694	29,722	101,972	101,972	99,666	2.3	
Tenn. ....	7	288,738	17,025	271,713	1,491	270,222	270,222	264,163	2.3	
Tex. ....	4	1,337,584	16,626	1,320,958	180,516	1,140,442	1,140,442	1,075,851	6.0	
Utah. ....	4	99,745	5,397	94,349		94,349	94,349	87,850	7.4	
Vt. ....	4	68,009	872	67,137		67,137	67,137	63,300	6.1	
Va. ....	5	382,173		382,173	23,532	358,641	358,541	334,327	7.2	
Wash. ....	5	354,142	8,090	346,052	25,111	320,941	320,941	309,697	3.6	
W. Va. ....	5	215,100		215,100	3,026	212,074	212,074	188,915	12.3	
Wisc. ....	4	566,693	17,101	549,592	41,816	507,776	507,776	484,812	4.7	
Wyo. ....	4	68,014	2,341	65,673		65,673	65,673	63,376	3.6	
D. of C. ....	2	150,365	6,523	143,842	1,066	142,776	142,776	133,325	7.1	
Total. . .	③ 3.96	22,685,056		703,604	21,981,452	1,214,939	20,766,513	20,638,396	19,504,621	5.8

①—Weighted average rate.

②—Export sales and other amounts not representing consumption in state have been eliminated as far as possible. In cases where states failed to report amounts exempted from taxation, the gross amount taxed is shown in this column.

③—Includes allowances for evaporation and other losses, federal use, other public use, and nonhighway use, where initial exemptions rather than refunds are made.

④—Rate changed from 5 cents to 5.1 cents March 11.

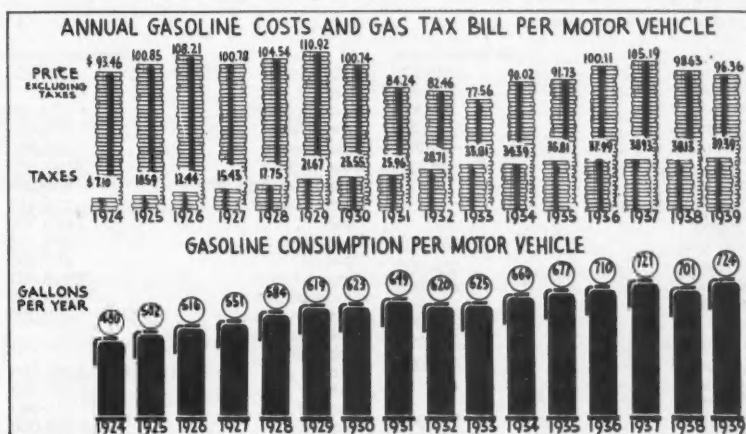
⑤—Gallons taxed at 5 cents, 3,003,000; at 5.1 cents, 85,441,000.

⑥—Rate changed from 3 cents to 4 cents, July 1.

⑦—Gallons taxed at 3 cents, 35,693,000; at 4 cents, 47,001,000.

⑧—Amounts given do not include 67,765,000 gallons of liquid fuel (kerosene, fuel oil, etc.) taxes at 1 cent per gallon but not subject to the 3-cent tax on motor-vehicle fuel.

# Gasoline Consumption Per Vehicle at New High



## Gasoline Consumption, Cost and Taxes Per Vehicle

(SOURCE: American Petroleum Industries Committee)

	Total Motor Fuel Domestic Demand <sup>①</sup> Thousand Gallons	Motor Vehicle Demand <sup>②</sup> Thousand Gallons	Aver. No. Motor Veh. in Use <sup>③</sup> Thous.	Aver. Consum'n per Motor Vehicle Gals.	Average Gas Tax <sup>④</sup> \$ per Vehicle	SERVICE STATION PRICE <sup>⑤</sup> ¢ per Gallon		ANNUAL FUEL COST \$ per Vehicle		% Cost Added by Tax
						Ex. Tax	Inc. Tax	Ex. Tax	Inc. Tax	
1920	4,575,690	4,072,362	8,140	500	\$0.45	29.74	29.83	\$149.70	\$149.15	0.3
1921	4,907,280	4,367,496	9,407	464	0.93	26.11	26.31	121.15	122.08	0.8
1922	5,786,340	5,149,830	10,557	488	1.85	24.82	25.20	121.12	122.97	1.5
1923	7,327,404	6,521,382	12,811	509	4.63	21.06	21.97	107.20	111.83	4.3
1924	8,256,612	7,348,404	15,304	490	7.10	19.47	20.95	93.46	100.56	7.6
1925	9,775,290	8,700,006	17,321	502	10.59	20.09	22.20	100.85	111.44	10.5
1926	12,017,376	10,022,628	19,427	516	12.44	20.97	23.38	103.21	120.65	11.5
1927	12,825,414	11,414,634	20,714	551	15.43	18.29	21.09	100.78	116.21	15.3
1928	14,233,002	12,667,368	21,687	584	17.75	17.90	20.94	104.94	122.29	17.0
1929	16,080,876	14,311,962	23,120	619	21.67	17.92	21.42	110.92	132.59	19.5
1930	16,699,578	14,862,624	23,846	623	23.55	16.17	19.95	100.74	124.29	23.4
1931	17,128,406	15,245,160	23,500	649	25.96	12.96	16.98	84.24	110.20	30.8
1932	15,967,222	14,121,828	22,785	620	28.71	13.30	17.93	82.46	111.17	34.8
1933	15,980,748	14,222,880	22,759	625	33.81	12.41	17.82	77.56	111.37	43.6
1934	17,234,238	15,338,484	23,223	660	34.39	13.64	18.85	90.02	124.41	38.2
1935	18,262,020	16,253,202	23,990	677	35.81	13.55	18.84	91.73	127.54	39.0
1936	20,227,452	18,002,418	25,341	710	37.99	14.10	19.45	100.11	138.10	37.9
1937	21,812,784	19,413,366	26,913	721	38.53	14.59	19.99	105.19	144.12	37.0
1938	21,966,126	19,549,866	27,874	701	38.13	14.07	19.51	98.63	136.76	38.7
1939	23,207,394	20,654,592	28,532	724	39.39	13.31	18.75	96.36	135.75	40.9

①—United States Bureau of Mines refinery demand.

②—89 per cent of total motor fuel demand used by motor vehicles.

③—Average beginning and ending of each year; includes estimates of unregistered motor vehicles (tax-exempt official cars, dealer registrations), computed from registration figures published by the Public Roads Administration.

④—Average gasoline prices in 50 cities, compiled by The Texas Company.

⑤—Includes Federal, State and Local taxes.

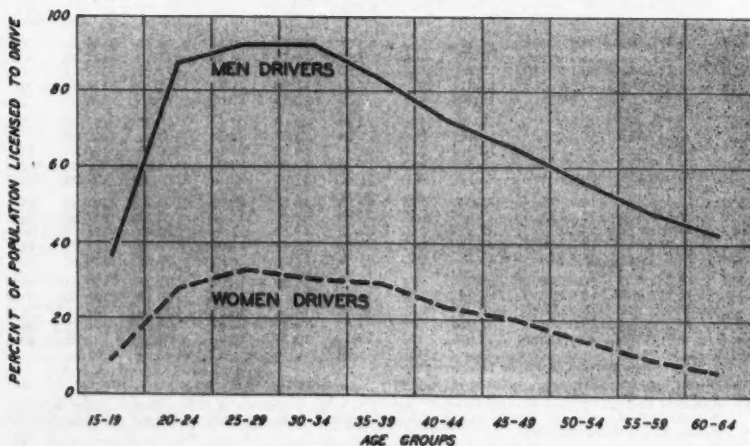


# 40,571,000 Driver Licenses Issued in 40 States

(SOURCE: National Safety Council, compiled from 1939 reports from state authorities giving cumulated number of licenses issued since end of previous license period.)

Licenses Issued		Licenses Issued	
Alabama.....	525,000	Nebraska.....	490,253
Arizona.....	205,000	Nevada.....	.....
Arkansas.....	308,674	New Hampshire.....	170,000
California.....	3,500,000	New Jersey.....	1,297,515
Colorado.....	426,280	New Mexico.....	130,000
Connecticut.....	525,000	New York.....	3,983,554
Delaware.....	.....	North Carolina.....	800,000
District of Columbia.....	.....	North Dakota.....	210,314
Florida.....	.....	Ohio.....	2,666,550
Georgia.....	556,091	Oklahoma.....	803,748
Idaho.....	214,097	Oregon.....	427,955
Illinois.....	2,883,958	Pennsylvania.....	2,818,487
Indiana.....	1,326,917	Rhode Island.....	219,715
Iowa.....	967,099	South Carolina.....	480,000
Kansas.....	799,079	South Dakota.....	.....
Kentucky.....	520,000	Tennessee.....	.....
Louisiana.....	.....	Texas.....	3,252,105
Maine.....	.....	Utah.....	282,000
Maryland.....	590,000	Vermont.....	112,987
Massachusetts.....	1,231,552	Virginia.....	638,000
Michigan.....	2,052,873	Washington.....	687,221
Minnesota.....	1,000,000	West Virginia.....	400,000
Mississippi.....	350,000	Wisconsin.....	1,200,000
Missouri.....	1,280,000	Wyoming.....	.....
Montana.....	240,000	Total in 40 States.....	40,571,024

## 30% of Women Age 20 to 34 Licensed to Drive



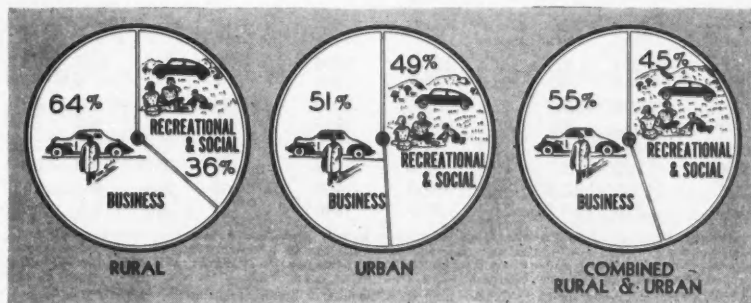
SOURCE: Motor vehicle drivers' licenses in Connecticut and Ohio, classified according to age, compared with U. S. Census of Population.



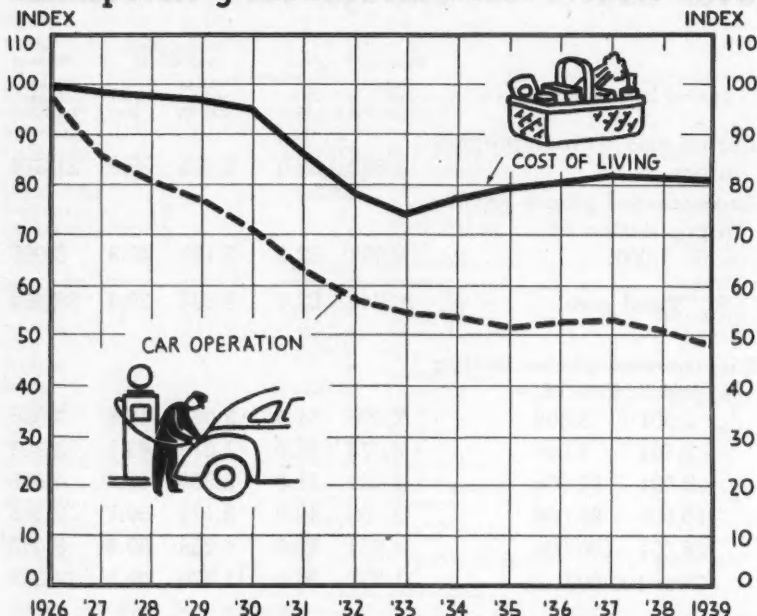
# Over Half of Car Mileage Used on Business

Travel by residents of—	Business Purposes		Recreational and Social		Total Mileage
	Vehicle Miles 1,000,000	Per-cent	Vehicle Miles 1,000,000	Per-cent	Vehicle Miles 1,000,000
<b>Farms and unincorporated areas</b> .....	13,887	65.0	7,492	35.0	21,379
<b>Incorporated places having a population of—</b>					
0—1,000 .....	2,953	58.1	2,132	41.9	5,085
<b>Total rural</b> .....	16,840	63.6	9,624	36.4	26,464
<b>Incorporated places having a population of—</b>					
1,001— 2,500 .....	2,468	54.4	2,068	45.6	4,536
2,501— 5,000 .....	2,074	51.9	1,919	48.1	3,993
5,001— 10,000 .....	2,421	51.8	2,254	48.2	4,675
10,001— 25,000 .....	3,169	49.9	3,176	50.1	6,345
25,001—100,000 .....	4,204	49.8	4,236	50.2	8,440
<b>Over 100,000</b> .....	11,257	50.4	11,070	49.6	22,327
<b>Total urban</b> .....	25,593	50.9	24,723	49.1	50,316
<b>Total</b> .....	42,433	55.3	34,347	44.7	76,780

SOURCE: U. S. Public Roads Administration. Data from preliminary road use studies conducted as a part of the state-wide highway planning surveys. Includes data from 25 states.



# Car Operating Costs Decrease 50% Since 1926



Cost of living is U. S. Bureau of Labor Statistics Index for 32 large cities. Operating costs are per mile average direct costs for light passenger cars, based on the records of ten large fleets. All indexes are 1926 = 100.

## Retail Price Averages Per Car, Pound and Horsepower

Year	AVERAGE RETAIL PASSENGER CAR PRICES			Urban Cost of Living (1923-25 equals 100)	Year	AVERAGE RETAIL PASSENGER CAR PRICES			Urban Cost of Living (1923-25 equals 100)
	Per Car	Per Pound	Per Horsepower			Per Car	Per Pound	Per Horsepower	
1925...	\$1,007	\$4.27	\$31.5	101.8	1933...	\$630	\$2.42	\$9.6	75.8
1926...	943	.391	27.6	102.6	1934...	664	.247	8.4	78.6
1927...	977	.393	25.6	100.6	1935...	658	.236	7.8	80.7
1928...	911	.352	20.1	99.5	1936...	687	.238	8.0	81.6
1929...	843	.321	16.7	99.5	1937...	704	.245	8.6	84.3
1930...	798	.307	15.5	97.0	1938...	779	.267	9.3	83.0
1931...	767	.286	13.8	88.6	1939...	768	.263	9.1	82.2
1932...	723	.261	11.4	79.8	1940†...	778	.263	9.1	*82.2

Average Prices are based on the delivered price at factory (including standard equipment and federal taxes) of the cheapest 4 or 5 passenger closed model of each make and are weighted by the relative total number of new car registrations of each make. Delivered price prior to 1936 computed from ratio of factory list price to delivered price in 1936 and 1937.

Urban Cost of Living, all U. S. Cities—from U. S. Bureau of Labor Statistics.

\*December, 1939.

†Prices weighted by sales in 1939.

# Motor Industry Helps Maintain Many Others

## Largest Purchaser of Numerous Commodities in 1939

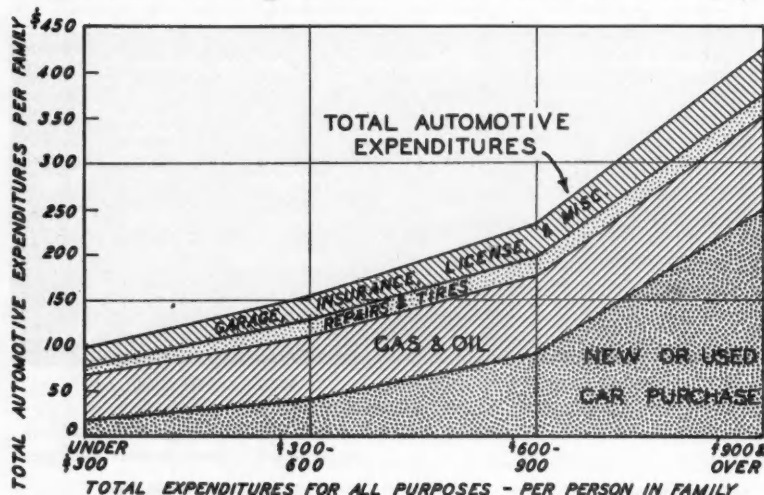
	Percent Used by Motor Industry	Rank as Consumer		Percent Used by Motor Industry	Rank as Consumer
Strip steel ①	49%	First	Gasoline	90%	First
Bars ①	33%	First	Rubber	80%	First
Sheets ①	44%	First	Plate glass	75%	First
Malleable iron	51%	First	Nickel	23%	First
Alloy steel ①	55%	First	Lead	34%	First
Steel, all forms	18%	First			

	U. S. Total Consumption	Automotive Consumption*	Percent Automotive
Steel ① (Net tons)	33,122,628	5,993,590	18.1%
Iron, malleable (tons)	565,000	286,000	51%
Gray iron (tons)	6,839,000	947,920	14%
Rubber, crude (long tons)	592,000	473,600	80%
Plate glass (square feet)	156,999,959	117,725,000	75%
Leather, upholstery (square feet)	39,820,000	27,077,000	68%
Aluminum (tons)	217,000	21,000	9.7%
Copper (tons)	801,000	110,000	13.7%
Tin (tons)	88,000	10,000	11.4%
Lead (tons)	667,000	228,000	34.2%
Zinc (tons)	626,000	76,000	12.1%
Nickel (pounds)	88,000,000	20,000,000	23%
Cotton (bales)	7,371,420	734,147	10%
Lumber, hardwood (board feet)	4,019,000,000	175,000,000	4.5%
Lumber, softwood (board feet)		104,000,000	
Glycerine (pounds)	150,000,000	18,200,000	12.1%
Cloth, upholstery (yards)		45,120,000	
Gasoline (gallons)	23,207,394,000	20,766,513,000	90%
Antifreeze solutions (gallons)	33,000,000	33,000,000	100%

\*Estimated amounts used in manufacturing motor vehicles, repair parts and accessories in 1939. Consumption of gasoline and anti-freeze solutions was, of course, used in the operation of motor vehicles.

①—Figures from the magazine "Steel."

# Automotive Expenditures Per Urban Family



Annual Expenditures for Automobile Transportation Per Urban Car-Ownning Family at Various Economic Levels

	All Families	FAMILIES WITH TOTAL ANNUAL EXPENDITURES PER PERSON* OF:			
		Under \$300	\$300-\$600	\$600-\$900	\$900 & Over
Purchase of:					
Automobiles.....	\$73.06	\$15.49	\$41.65	\$92.71	\$251.64
Motorcycles.....	.11	.43	.12	.04	....
Gasoline (including tax)....	67.05	45.06	62.69	74.95	89.18
Oil.....	8.24	5.72	7.55	9.39	11.37
Rubber Tires.....	6.46	4.24	6.34	7.06	7.43
Rubber Tubes.....	.83	.51	.83	.90	.95
Repairs and Maintenance...	10.99	5.60	9.27	13.68	17.62
Garage Rent and Parking...	7.25	2.61	5.57	10.05	12.86
License and Property Tax...	10.56	9.84	10.17	11.05	12.09
Insurance.....	8.91	2.88	6.27	12.20	20.08
Fines and Damages.....	.63	.23	.59	.56	1.10
Rent of Auto or Motorcycle...	2.45	3.97	2.50	2.20	1.46
Other Auto and Motorcycle Expense.....	.36	.43	.31	.43	.57
<b>Total Purchase and Operating Costs.....</b>	<b>\$196.90</b>	<b>\$97.01</b>	<b>\$153.86</b>	<b>\$235.22</b>	<b>\$426.35</b>

\*By "person" is meant equivalent adult male, i. e., children and adult female members of the family are counted as decimal equivalents of an adult male.

SOURCE: U. S. Bureau of Labor Statistics. "Study of Consumer Purchases, Urban Series." Survey of 14,469 families in 42 cities, with population over 50,000, in various sections of the United States.

**PERCENT**

 Cities 2,500 to 25,000 Pop.

Farms &amp; Villages under 2,500

### 35% of Motor Vehicles in New England Owned in Cities Between 2,500 and 25,000 Population

### POPULATION GROUPS

75

# 3,617,000 Carloads Automotive Freight

Automotive Freight 3,616,917 Carloads			
	Carloads*		Carloads*
Motor vehicles, parts, tires	344,281	Road and fuel oil	45,556
Gasoline	1,092,857	Crude rubber	11,282
Iron and steel	177,500	Cement for roads, bridges	361,623
Iron ore	168,770	Asphalt for roads	33,910
Coal and coke	131,000	Gravel, sand, stone, brick	656,664
Crude petroleum	82,676	Miscellaneous, such as non-ferrous metals, paints, upholstery materials	158,000
Lubricating oil	76,898		
Lumber	16,000		
Total Automotive Freight Carloads			3,616,917
Rail Revenue from Automotive Freight			\$507,007,407
*Partly estimated by Automobile Manufacturers Association			\$425,000,000

## Rail Carloads of Automobiles, Trucks, Parts and Tires, 1939

(From Freight Commodity Statistics of the Interstate Commerce Commission)

Eastern Lines	Carloads Originated	Carloads Received from Connections	Total Carloads Carried	Revenue
N. Y. C. Lines	150,909	46,411	197,320	\$14,213,151
G. T. W. R.R.	61,848	10,191	72,039	3,506,713
P. M. Ry.	43,526	7,843	51,369	2,986,746
Penn. System	43,329	30,036	73,365	5,663,731
D. T. & I. R.R.	42,837	3,362	46,199	1,899,621
Erie R.R.	16,788	19,109	35,897	2,280,303
B. & O. R.R.	10,137	21,850	31,987	2,010,601
Wabash System	6,901	34,578	41,479	3,052,006
Reading System	5,549	16,011	21,560	702,284
A. C. & Y. Ry.	4,327	377	4,704	175,560
D. & T. S. L. R.R.	3,235	10,438	13,673	240,529
N. Y. C. & St. L. R.R.	2,524	11,001	13,525	920,076
C. & E. I. Ry.	2,057	7,130	9,187	487,198
D. L. & W. R.R.	1,890	15,430	17,320	1,194,191
N. Y. S. & W. R.R.	1,491	4,314	5,805	192,299
B. & M. R.R.	1,420	16,964	18,384	925,719
C. I. & L. R.R.	910	2,034	2,944	153,125
L. V. R.R.	646	17,797	18,443	1,357,642
C. & O. Ry.	559	6,916	7,475	531,126
N. & W. Ry.	516	5,526	6,042	607,643
N. Y. N. H. & H. R.R.	454	19,662	20,116	902,448
D. & H. R.R.	360	7,171	7,531	196,233
W. Md. Ry.	274	5,778	6,052	256,991
C. Vt. Ry.	80	4,218	4,298	202,086
W. & L. E. R.R.	68	6,941	7,009	203,494
Ill. Terminal R.R.	58	904	962	31,274
Virginian Ry.	21	2,692	2,713	175,038
N. Y. O. & W. Ry.	11	2,621	2,632	71,328
E. I. & E. Ry.	7	2,348	2,355	30,348
C. P. Lines in Me. & Vt.	2	4,588	4,590	94,484
Me. Cent. R.R.	1	2,386	2,387	108,579
R. F. & P. R.R.	1	2,703	2,704	57,259

(Continued on following page)

# \$425,000,000 ~~\$567,567,000~~ in 1939

(Continued from preceding page)

	Carloads Originated	Carloads Received from Connections	Total Carloads Carried	Revenue
<b>Eastern Lines—continued</b>				
Rutland R.R.	.....	2,121	2,121	95,975
P. & W. Va. Ry.	.....	3,705	3,705	68,016
Miscellaneous	.....	59	7,819	104,668
<b>Total Eastern Lines</b>	<b>402,795</b>	<b>362,916</b>	<b>765,711</b>	<b>\$45,698,485</b>
<b>Southern Lines</b>				
Southern Ry. System	17,387	30,288	47,675	\$3,307,640
Ill. Cent. System	7,819	23,264	31,083	2,688,609
L. & N. R.R.	3,250	6,120	9,370	870,163
M. & O. R.R.	459	1,789	2,248	186,792
A. C. L. System	166	8,793	8,959	443,652
S. A. L. Ry.	120	4,437	4,557	297,372
G. M. & N. R.R.	86	2,155	2,241	178,852
N. C. & St. L. Ry.	62	2,428	2,490	173,056
Norfolk Southern R.R.	25	1,062	1,087	58,432
F. E. C. Ry.	23	1,305	1,328	141,560
Clinchfield R.R.	1	2,571	2,572	140,565
Miscellaneous	20	1,723	1,743	51,915
<b>Total Southern Lines</b>	<b>29,418</b>	<b>85,935</b>	<b>115,353</b>	<b>\$8,538,608</b>
<b>Western Lines</b>				
Mo. Pac. System	25,055	22,079	47,134	\$3,792,922
Sou. Pac. System	22,501	25,870	48,371	6,624,032
C. M. St. P. & P. R.R.	19,983	11,027	31,010	2,303,121
C. & N. W. System	15,433	23,727	39,160	2,169,137
A. T. & S. F. System	5,575	19,389	24,964	5,573,064
Frisco Lines	4,048	8,363	12,411	1,040,763
St. L. S. W. Lines	2,784	6,758	9,542	1,330,446
Rock Island System	2,616	17,107	19,723	1,983,233
Burlington Route	2,564	13,809	16,373	1,631,064
Union Pacific R.R.	2,429	24,007	26,436	6,049,011
K. C. S. Ry.	1,944	5,869	7,813	614,002
M. K. T. Lines	1,933	6,051	7,984	1,052,840
Gt. Nor. Ry.	1,597	7,141	8,738	1,357,948
T. & P. Ry.	1,574	11,334	12,908	976,559
M. St. P. & S. S. M. Ry.	692	2,315	3,007	308,676
C. G. W. R.R.	488	5,927	6,415	479,894
No. Pac. Ry.	443	6,817	7,260	1,229,225
Western Pac. R.R.	219	3,338	3,557	455,140
Alton R.R.	109	1,371	1,480	103,022
M. & St. L. R.R.	107	3,065	3,172	147,251
D. & R. G. W. R.R.	27	6,942	6,969	720,707
La. & Ark. Ry.	27	3,044	3,071	146,527
S. P. & S. Ry.	2	3,169	3,171	160,987
K. O. & G. Ry.	.....	3,723	3,723	185,966
G. B. & W. R.R.	.....	2,535	2,535	136,470
Miscellaneous	18	4,467	4,485	189,655
<b>Total Western Lines</b>	<b>112,163</b>	<b>249,244</b>	<b>361,412</b>	<b>\$40,761,662</b>
<b>Total U. S. Automobiles, Trucks and Parts, including Tires</b>	<b>544,381</b>	<b>698,095</b>	<b>1,242,476</b>	<b>\$94,998,755</b>

(Additional data on automotive freight on page 78.)



# One-Seventh of All Rail Freight is Automotive

Year	All Traffic, Carloads (I.C.C. Statistics)	Automotive Freight Carloads*	Automotive Freight Per Cent of Total Carloads	Revenue from Automotive Freight
1929	36,821,868	3,667,792	10.0%	\$563,411,000
1930	31,479,071	3,330,583	10.6%	478,466,000
1931	24,631,961	3,106,645	12.6%	396,738,000
1932	18,067,496	2,543,833	14.1%	325,000,000
1933	19,278,087	2,640,910	13.7%	324,320,000
1934	21,223,443	3,064,805	14.4%	365,021,000
1935	21,779,757	3,361,601	15.5%	416,234,000
1936	25,980,943	3,791,247	14.6%	494,562,000
1937	27,175,680	4,155,749	15.3%	473,431,000
1938	21,167,420	3,095,108	14.6%	359,069,000
1939	24,119,098	3,616,917	15.0%	<del>563,562,000</del> 425,000,000

\*Includes freight produced by motor vehicle manufacture and use, and highway construction.

## Shipments of Assembled Cars and Trucks From Factories and Assembling Plants in United States, including Exports

Year	Railroad Carloads of Machines	Machines Delivered Overland	Machines Shipped by Boat	Year	Railroad Carloads of Machines	Machines Delivered Overland	Machines Shipped by Boat
1929	733,631	1,958,738	199,576	1936	448,685	2,237,432	311,436
1932	130,820	706,977	51,103	1937	476,221	2,452,300	340,773
1933	198,827	930,303	126,258	1938	224,955	1,330,334	151,632
1934	318,294	1,209,291	154,540	1939	313,204	1,996,629	208,549
1935	401,547	1,899,974	272,458				

## 38% of Industrial Rail Freight is Automotive

PERCENTAGE AUTOMOTIVE				PERCENTAGE AUTOMOTIVE			
Year	Manufactures and Miscellaneous	Forests and Mines	Total Carload Traffic	Year	Manufactures and Miscellaneous	Forests and Mines	Total Carload Traffic
1929	23.0%	4.5%	10.0%	1935	32.9%	8.6%	15.5%
1930	24.0%	5.8%	10.6%	1936	30.3%	8.3%	14.6%
1931	28.8%	7.6%	12.6%	1937	29.0%	10.2%	15.3%
1932	34.4%	8.4%	14.1%	1938	29.4%	10.0%	14.6%
1933	32.7%	8.0%	13.7%	1939	28.4%	10.6%	15.0%
1934	33.0%	8.4%	14.4%				

## Steamship Space Required for Motor Vehicles

The major tonnage of important steamship lines last year consisted of automobiles and parts shipped by motor vehicle manufacturers to foreign countries. Below is the number of cubic feet of steamship space used in:

	Cubic Feet		Cubic Feet
1934	76,743,300	1937	146,728,200
1935	97,562,100	1938	102,477,200
1936	98,221,700	1939	85,972,300

# Railroad Use of Trucks Rapidly Expanding

(Exclusive of trucks owned by Railway Express Agency—13,814 in 1939.)

Year	Terminal Transfer Service	Intercity Service	Store Door Delivery Service	Total No. in Service	Percent Increase Yearly
1925.....	800	100	0	900	.....
1926.....	1,450	150	0	1,600	78%
1927.....	2,900	400	0	3,300	106%
1928.....	4,350	550	0	4,900	48%
1929.....	4,500	750	650	5,900	20%
1930.....	4,750	850	1,400	7,000	19%
1931.....	5,000	950	4,050	10,000	43%
1932.....	5,500	1,000	5,500	12,000	20%
1933.....	6,750	1,150	15,100	23,000	92%
1934.....	7,175	1,275	16,857	25,307	10%
1935.....	8,100	3,402	32,465	43,967	73%
1936.....	8,304	3,745	33,022	45,071	3%
1937.....	8,419	5,102	39,641	53,162	18%
1938.....	9,111	5,890	48,780	63,781	20%
1939.....	10,314	6,400	48,804	65,518	2.7%

(Figures from Simmons-Boardman Publishing Co.)

## 86% of Motor Trucks Are Privately Owned

SOURCE: For-Hire trucks estimated by American Trucking Associations and the Bureau of Motor Carriers, Interstate Commerce Commission. Private trucks estimated by Automobile Manufacturers Association.

	Number of Trucks	Per Cent
For Hire (Interstate).....	200,000	4.5
For Hire (Intrastate: Local and Intercity).....	400,000	9.1
Total for Hire.....	600,000	13.6
Privately Owned and Operated (Including Farm Trucks).....	3,793,000	86.4
Total Motor Trucks Registered, 1939.....	4,393,000*	100.0

\*Exclusive of buses included with truck registrations in some states.

## Trucks Subject to More Regulations Than Railroads

A statement made by the Interstate Commerce Commission in its Fifty-Second Annual Report, page eight, reads as follows:

"These two acts (The Motor Carrier Act, 1935, and the Civil Aeronautics Act, 1938) provide for the motor carriers and the air carriers, respectively, a system of regulation which is, if anything, more comprehensive than that which has been provided for the railroads."

# U. S. Bus Census By States—1937-1939

SOURCE: "BUS TRANSPORTATION"

	1937	1938	1939		1937	1938	1939
Ala. ....	2,879	2,888	2,956	Neb. ....	689	701	630
Ariz. ....	673	717	694	Nev. ....	276	274	271
Ark. ....	1,381	1,415	1,712	N. H. ....	319	332	821
Calif. ....	4,502	4,689	5,038	N. J. ....	7,310	6,181	6,794
Colo. ....	1,609	1,764	1,911	N. M. ....	1,093	1,077	1,112
Conn. ....	1,632	1,765	1,785	N. Y. ....	13,841	14,367	15,079
Del. ....	299	315	326	N. C. ....	4,507	4,731	4,905
Dist. of Col.	649	643	747	N. D. ....	669	683	703
Fla. ....	1,939	2,025	2,009	Ohio. ....	9,660	10,248	9,286
Ga. ....	2,618	3,094	3,130	Okla. ....	3,018	3,022	3,150
Idaho. ....	418	398	774	Ore. ....	991	1,402	1,503
Ill. ....	2,564	2,494	2,345	Pa. ....	5,819	6,054	8,300
Ind. ....	8,131	8,156	8,463	R. I. ....	534	471	480
Iowa. ....	2,644	2,763	2,979	S. C. ....	1,600	1,624	1,665
Kan. ....	788	777	820	S. D. ....	473	466	477
Ky. ....	1,616	1,616	2,092	Tenn. ....	1,981	2,431	2,515
La. ....	3,074	3,092	3,243	Tex. ....	6,663	7,787	7,793
Maine ....	390	430	495	Utah. ....	651	641	711
Md. ....	1,255	1,330	1,444	Vt. ....	385	362	349
Mass. ....	4,259	4,287	4,525	Va. ....	2,637	2,829	3,167
Mich. ....	2,838	2,972	3,288	Wash. ....	2,889	2,594	2,528
Minn. ....	2,447	1,977	2,903	W. Va. ....	1,520	1,663	1,732
Miss. ....	4,452	4,920	4,807	Wis. ....	2,516	2,521	2,640
Mo. ....	2,989	3,517	3,541	Wyo. ....	872	883	986
Mont. ....	621	614	607	U. S. Total.	127,581	132,002	140,231*

\*Total by states exceeds net U. S. total of 138,250 buses because some revenue buses are also operated as school buses and hence duplication results in count by states.

## Buses Serve Pupils at 42,500 Consolidated Schools



The annual service costs of school bus transportation for 42,500 consolidated schools in the United States averages \$19.50 per pupil. Source: "Bus Transportation".

# Buses Serve 3,742,000 School Children Daily

(SOURCE: "Bus Transportation" as of December 31, 1939)

	No. of Schools Using Buses	No. of Buses in School Operation	Miles of Route One-Way	Children Carried Daily	Cost of Service Annually
<b>B. T. Census Total</b> .....	42,452	*91,616	1,276,315	3,742,240	\$72,949,264
<b>I.—NEW ENGLAND</b>					
1. Connecticut.....	250	748	6,000	37,402	1,068,918
2. Maine.....	2,381	300	2,570	26,778	710,408
3. Massachusetts.....	450	1,600	6,700	53,000	1,450,000
4. New Hampshire.....	238	713	3,000	13,047	519,529
5. Rhode Island.....	30	150	1,475	4,600	140,000
6. Vermont.....	150	175	1,750	5,400	224,000
<b>II.—CENTRAL ATLANTIC</b>					
7. Delaware.....	69	237	2,370	9,600	258,140
8. District of Columbia.....	6	16	92	183	23,200
9. Maryland.....	601	954	12,452	62,399	1,232,241
10. New Jersey.....	468	1,561	16,000	92,712	2,157,445
11. New York.....	4,932	7,868	132,235	134,832	6,250,000
12. Pennsylvania.....	1,311	4,500	54,000	180,000	4,132,000
<b>III.—SOUTHEAST</b>					
13. Alabama.....	1,190	2,600	49,420	105,418	1,527,797
14. Florida.....	781	1,365	14,237	85,288	1,491,852
15. Georgia.....	1,600	2,711	53,054	173,931	2,049,708
16. North Carolina.....	1,230	4,286	74,250	319,893	2,251,620
17. South Carolina.....	380	1,495	23,078	59,156	860,379
18. Virginia.....	750	2,373	75,936	153,883	1,860,580
<b>IV.—MID-WEST</b>					
19. Illinois.....	154	327	13,302	11,002	339,391
20. Indiana.....	1,000	7,475	82,877	215,673	4,990,095
21. Iowa.....	584	2,620	24,018	58,060	1,720,793
22. Kentucky.....	950	1,450	30,000	100,000	1,083,752
23. Michigan.....	500	886	10,886	50,000	1,250,000
24. Ohio.....	2,321	7,340	96,342	303,096	6,445,971
25. West Virginia.....	2,500	1,053	24,044	114,575	1,682,778
26. Wisconsin.....	1,850	2,050	12,300	30,000	900,000
<b>V.—GULF SOUTHWEST</b>					
27. Arkansas.....	659	1,535	20,185	80,205	911,561
28. Louisiana.....	934	2,676	32,644	129,016	2,353,789
29. Mississippi.....	1,250	4,700	38,800	135,000	2,300,000
30. Missouri.....	300	1,755	13,000	67,492	1,236,178
31. Oklahoma.....	744	2,688	52,108	117,713	2,269,380
32. Tennessee.....	1,887	1,958	33,746	117,805	1,385,626
33. Texas.....	3,200	6,022	72,264	250,000	3,243,770
<b>VI.—CENTRAL NORTHWEST</b>					
34. Minnesota.....	412	2,294	25,183	43,010	1,466,511
35. Montana.....	105	400	4,500	7,500	300,000
36. North Dakota.....	350	600	9,000	12,653	481,510
37. South Dakota.....	100	350	3,500	6,500	250,000
<b>VII.—WEST MID-CONTINENT</b>					
38. Colorado.....	477	1,126	20,667	22,402	717,017
39. Kansas.....	240	350	7,000	10,311	285,656
40. Nebraska.....	73	223	2,054	4,393	100,000
41. Wyoming.....	180	594	7,167	12,216	542,532
<b>VIII.—PACIFIC SOUTHWEST</b>					
42. Arizona.....	300	420	14,000	16,500	325,000
43. California.....	820	2,200	15,000	98,980	2,850,000
44. Nevada.....	79	200	4,150	2,123	120,000
45. New Mexico.....	320	1,003	19,057	25,700	969,971
46. Utah.....	38	426	5,620	30,545	464,461
<b>IX.—PACIFIC NORTHWEST</b>					
47. Idaho.....	380	700	10,000	25,000	626,464
48. Oregon.....	350	955	28,332	31,909	1,094,863
49. Washington.....	2,578	1,578	15,850	95,339	2,034,378

\*It is estimated that approximately 6,000 buses used part time in school service are operated mainly in common carrier service and hence cannot strictly be classed as school buses. Estimates are necessary for states where no 1939 reports were available. This tabulation covers both buses operated under contract for schools by private carriers, and state or school-owned buses.

# Trucks Haul Farm

(All Data from U. S. Department of Agriculture)

## Butter 27%

RECEIPTS (GROSS LBS.): NEW YORK  
CHICAGO, PHILADELPHIA AND BOSTON

Year	Truck ① (000)	Rail ② (000)	Per Cent Trucked
1939	192,993	505,100	27.6
1938	181,102	583,333	23.7
1937	133,778	483,530	21.7
1936	111,592	514,421	17.8
1935	107,429	526,053	17.0

## Eggs 39%

RECEIPTS (CASES): NEW YORK, CHICAGO,  
PHILADELPHIA AND BOSTON

Year	Truck ① (000)	Rail ② (000)	Per Cent Trucked
1939	5,422	8,301	39.5
1938	3,807	8,896	30.0
1937	4,970	8,567	36.7
1936	4,354	8,965	32.7
1935	4,001	8,518	32.0

## Live Poultry 65%

RECEIPTS: NEW YORK CITY ③

Year	Truck ① (000)	Rail ② (000)	Per Cent Trucked
1939	4,995	2,652	65.3
1938	5,845	3,114	65.2
1937	5,624	3,860	59.3
1936	4,747	4,403	51.9
1935	3,157	5,525	36.4
1934	2,428	7,753	23.8

## Fruit—Vegetables 40%

1938 RECEIPTS ③

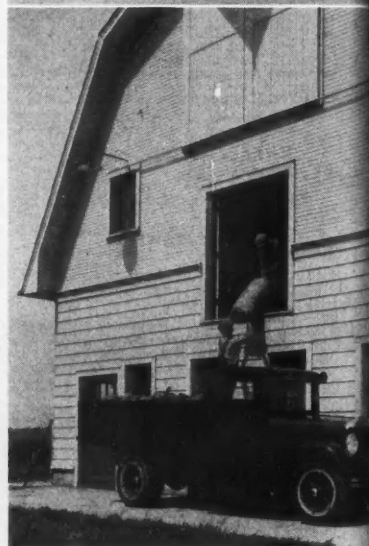
City	Truck ① (000)	Rail ② (000)	Per Cent Trucked
Atlanta	12,207	3,509	78
Boston	14,267	40,700	26
Chicago	13,648	62,769	18
Kansas City	3,382	10,437	25
Los Angeles	65,137	10,596	86
Milwaukee	449	9,241	5
New Orleans	4,394	5,829	43
New York	64,928	121,445	35
Philadelphia	34,703	35,265	50
Pittsburgh	3,211	25,189	11
St. Louis	4,501	18,532	20
San Francisco	15,285	6,301	71

1938 TOTAL . . . 236,112 . . . 349,813 . . . 40

① Truck receipts do not include all arrivals as it is impossible to obtain reports from all receivers.

② Also includes boat receipts of fruit and vegetable freight.

③ Truck receipts in car-lot equivalents.



# Produce to Markets

DRIVE-INS AND PER CENT OF TOTAL  
RECEIPTS ALL IMPORTANT MARKETS ①

## Cattle 62%

Year	Drive-Ins (000)	Total Receipts (000)	Per Cent Trucked
1935	7,645	14,986	51.0
1936	8,615	15,711	54.8
1937	8,002	15,135	52.9
1938	8,245	14,076	58.6
1939	8,587	13,896	61.8

## Calves 61%

Year	Drive-Ins (000)	Total Receipts (000)	Per Cent Trucked
1935	3,621	6,618	54.7
1936	3,953	6,870	57.5
1937	4,194	7,286	57.6
1938	3,817	6,563	58.2
1939	3,977	6,560	60.6

## Hogs 68%

Year	Drive-Ins (000)	Total Receipts (000)	Per Cent Trucked
1935	11,940	19,562	61.0
1936	16,993	26,399	64.4
1937	14,931	22,666	65.9
1938	16,313	24,801	65.8
1939	19,095	27,974	68.3

## Sheep and Lambs 29%

Year	Drive-Ins (000)	Total Receipts (000)	Per Cent Trucked
1935	6,619	25,567	25.9
1936	6,486	24,652	26.3
1937	6,640	24,979	26.6
1938	7,024	25,598	27.4
1939	6,939	23,817	29.1

## Horses and Mules 50%

Year	Drive-Ins (000)	Total Receipts (000)	Per Cent Trucked
1935	170	537	31.7
1936	183	511	35.8
1937	169	443	38.2
1938	149	361	41.2
1939	143	284	50.4

## Total Livestock 53%

Year	Drive-Ins (000)	Total Receipts (000)	Per Cent Trucked
1935	29,994	67,270	44.6
1936	36,230	74,343	48.9
1937	33,936	70,509	48.1
1938	35,549	71,399	49.8
1939	38,741	72,532	53.4

① Number of markets varies from 62 prior to January, 1936 to 68 in 1938.

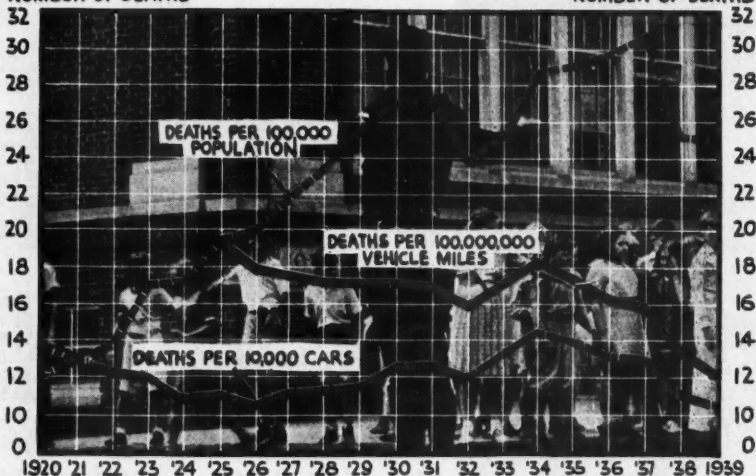




# U. S. Traffic Fatality Rate Decreases In 1939

NUMBER OF DEATHS

NUMBER OF DEATHS



## Death Rate on Mileage Basis 30% Below 1929

(SOURCE: "Accident Facts" by the National Safety Council)

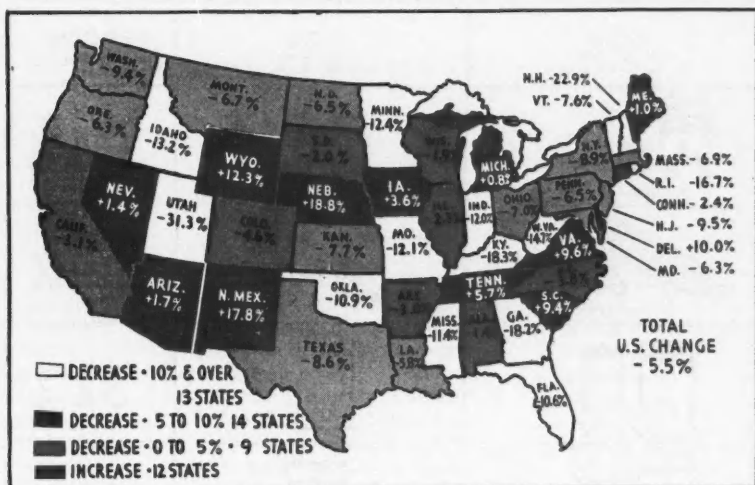
Year	ALL DEATHS	DEATHS FROM COLLISION WITH						TOTAL DEATH RATES			
		Pedestrians	Other Motor Vehicles	Railroad Trains	Street Cars	Bicycles and Horse-drawn Vehicles	Fixed Objects	Deaths from Non-Collision Accidents	Per 100,000 Population	Per 10,000 Mot. Vehicles	Per 100,000,000 Vehicle Miles
1927....	25,796	10,820	3,430	1,832	520	820	500	7,870	21.8	11.1	17.7
1928....	27,996	11,420	4,310	2,142	569	950	540	8,070	23.3	11.4	17.4
1929....	31,215	12,250	5,400	2,046	530	990	620	9,380	25.7	11.7	17.3
1930....	32,929	12,900	5,880	1,830	481	1,150	720	9,970	26.7	12.4	17.4
1931....	33,675	13,370	6,820	1,714	435	900	870	9,570	27.1	13.0	17.0
1932....	29,451	11,490	6,070	1,522	316	750	800	8,500	23.6	12.2	16.1
1933....	31,363	12,840	6,470	1,437	318	710	900	8,680	24.9	13.2	17.1
1934....	36,101	14,480	8,110	1,457	332	860	1,040	9,820	28.5	14.4	18.4
1935....	36,369	14,350	8,750	1,587	253	700	1,010	9,720	28.5	13.9	17.4
1936....	38,089	15,250	9,500	1,697	269	900	1,060	9,410	29.7	13.5	16.4
1937....	39,643	15,500	10,320	1,810	264	900	1,160	9,690	30.7	13.3	15.9
1938....	32,582	12,680	8,780	1,489	165	890	990	7,590	25.0	11.1	12.8
1939(est.)	32,600	12,300	8,650	1,350	150	900	1,000	8,250	24.9	10.6	12.1
Percentage Changes											
1929to1939 +4%	0	+60%	-34%	-72%	-9%	+61%	-12%	-3%	-9%	-30%	
1938to1939 0	-3%	-1%	-9%	-9%	+1%	+1%	+9%	0	-9%	-5%	

SOURCE: U. S. Census Bureau for total deaths and deaths from collisions with railroad trains and electric cars, through 1938. All other death figures are National Safety Council approximations. U. S. Public Roads Administration for motor vehicle registration and for gasoline consumption, used for estimating vehicle mileage.



# States Cut Mileage Fatality Rate in 1939

(SOURCE: National Safety Council)



## Rhode Island Safest State

### Kansas City, Missouri, Wins City Honors

All 48 states and 1,236 cities participated in the 1939 National Traffic Safety Contest conducted by the National Safety Council. States were grouped geographically and cities by population.

Winners in the State Contest were:

DIVISION	FIRST	SECOND	THIRD
Eastern	Rhode Island*	Massachusetts	New Jersey
Southern	Oklahoma	Texas	
Midwestern	Minnesota	Kansas	
Western	Washington	Oregon	

\*Also National Grand Award winner.

Winners in the Inter-City Contest were:

POPULATION GROUP	FIRST	SECOND	THIRD
Group I (over 500,000)	Cleveland, Ohio	Providence, R. I.	Memphis, Tenn.
Group II (250,000—500,000)	Kansas City, Mo.†	Wilmington, Del.	
Group III (100,000—250,000)	Worcester, Mass.	Beaumont, Tex.	Topeka, Kan.
Group IV (50,000—100,000)	Pontiac, Mich.	Dubuque, Iowa	
Group V (25,000—50,000)	Clarksburg, W. Va.	Lagrange, Ill.	Wilmette, Ill.
Group VI (10,000—25,000)	Aberdeen, S. D.		

†Also Grand Prize winner for cities of all sizes.

## Farm Products Buy More Auto Transportation







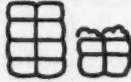







1926 COST	1939 COST	PERCENT DECREASE
 BEEF CATTLE		54%
 CORN		34%
 MILK		32%
 COTTON		31%
 EGGS		21%
 WHEAT		11%
 HOGS		6%

Chart shows direct operating cost of yearly travel by automobile in terms of various farm products, 1926 and 1939. For further information on operating costs, see chart on page 72. Farm product prices are average prices received by farmers, as reported by the U. S. Department of Agriculture.

# Members of Automobile Manufacturers Association

## Passenger Car Manufacturers

Trade Name	Member or Manufacturer	Address
Buick .....	Buick Motor Division *	Flint, Mich.
Cadillac .....	Cadillac Motor Car Division *	Detroit, Mich.
Chevrolet .....	Chevrolet Motor Division *	Detroit, Mich.
Chrysler .....	Chrysler Sales Division †	Detroit, Mich.
Crosley .....	The Crosley Corporation	Cincinnati, Ohio
De Soto .....	De Soto Division †	Detroit, Mich.
Dodge .....	Dodge Division †	Detroit, Mich.
Graham .....	Graham-Paige Motors Corporation	Detroit, Mich.
Hollywood .....	Graham-Paige Motors Corporation	Detroit, Mich.
Hudson .....	Hudson Motor Car Company	Detroit, Mich.
Hupmobile .....	Hupp Motor Car Corporation	Detroit, Mich.
LaSalle .....	Cadillac Motor Car Division *	Detroit, Mich.
Nash .....	Nash-Kelvinator Corporation	Detroit, Mich.
Oldsmobile .....	Olds Motor Works Division *	Lansing, Mich.
Packard .....	Packard Motor Car Company	Detroit, Mich.
Plymouth .....	Plymouth Division †	Detroit, Mich.
Pontiac .....	Pontiac Motor Division *	Pontiac, Mich.
Studebaker .....	The Studebaker Corporation	South Bend, Ind.
Willys .....	Willys-Overland Motors, Inc.	Toledo, Ohio

† Chrysler Corporation

\* General Motors Corporation.

## Taxicab Manufacturers

Checker .....	Checker Cab Mfg. Corporation	Kalamazoo, Mich.
G. M. C. ....	Yellow Truck and Coach Mfg. Co.	Pontiac, Mich.

## Ambulance and Funeral Vehicle Manufacturers

Cadillac .....	Cadillac Motor Car Division *	Detroit, Mich.
Packard .....	Packard Motor Car Company	Detroit, Mich.
Studebaker .....	The Studebaker Corporation	South Bend, Ind.

\* General Motors Corporation.

## Motor Fire Apparatus Manufacturers

Mack .....	Mack Brothers Motor Car Company	Long Island City, N. Y.
Walter .....	Walter Motor Truck Company	Ridgewood, N. Y.
White .....	The White Motor Company	Cleveland, Ohio

# Members of Automobile Manufacturers Association

## Motor Truck Manufacturers

Including Light Commercial Vehicle and Station-Wagon Manufacturers

Trade Name	Member or Manufacturer	Address
Autocar	The Autocar Company	Ardmore, Pa.
Chevrolet	Chevrolet Motor Division*	Detroit, Mich.
Corbitt	The Corbitt Company	Henderson, N. C.
Crosley	The Crosley Corporation	Cincinnati, Ohio
Diamond T	Diamond T Motor Car Company	Chicago, Ill.
Dodge	Dodge Division†	Detroit, Mich.
Federal	Federal Motor Truck Company	Detroit, Mich.
G. M. C.	Yellow Truck and Coach Mfg. Co.	Pontiac, Mich.
Hudson	Hudson Motor Car Company	Detroit, Mich.
Indiana	The White Motor Company	Cleveland, Ohio
International	International Harvester Company	Chicago, Ill.
LaFrance-Republic	Sterling Motor Truck Company	Milwaukee, Wis.
Mack	Mack Brothers Motor Car Company	Long Island City, N. Y.
Plymouth	Plymouth Division†	Detroit, Mich.
Reo	Reo Motors, Inc.	Lansing, Mich.
Sterling	Sterling Motor Truck Company	Milwaukee, Wis.
Studebaker	The Studebaker Corporation	South Bend, Ind.
Walter	Walter Motor Truck Company	Ridgewood, N. Y.
White	The White Motor Company	Cleveland, Ohio
Willys	Willys-Overland Motors, Inc.	Toledo, Ohio

† Chrysler Corporation.

\* General Motors Corporation.

## Motor Bus Manufacturers

Diamond T	Diamond T Motor Car Company	Chicago, Ill.
Federal	Federal Motor Truck Company	Detroit, Mich.
G. M. C.	Yellow Truck and Coach Mfg. Co.	Pontiac, Mich.
I. H. C.	International Harvester Company	Chicago, Ill.
Mack	Mack Brothers Motor Car Company	Long Island City, N. Y.
Reo	Reo Motors, Inc.	Lansing, Mich.
Studebaker	The Studebaker Corporation	South Bend, Ind.
White	The White Motor Company	Cleveland, Ohio

## Truck Trailer Manufacturers

Corbitt	The Corbitt Company	Henderson, N. C.
G. M. C.	Yellow Truck and Coach Mfg. Co.	Pontiac, Mich.
Mack	Mack Brothers Motor Car Company	Long Island City, N. Y.
White	The White Motor Company	Cleveland, Ohio

# Organization of Automobile Manufacturers Association

A list of Directors and Officers is given on page two

## Advertising Committee

Byron C. Foy, Chairman	DeSoto Motor Corporation*
H. T. DeHart	Yellow Truck & Coach Manufacturing Company
J. W. Dineen	General Motors Corporation
H. W. Hitchcock	Packard Motor Car Company
W. W. Romaine	Plymouth Motor Corporation*
James Cope, Secretary	

## Engineering Loading Committee

E. A. Weiss, Chairman	Packard Motor Car Company
Harry Golden	Buick Motor Division, General Motors Corporation
J. N. Prentiss	Cadillac Motor Division, General Motors Corporation
R. R. Brown	Chevrolet Motor Division, General Motors Corporation
H. S. Wells	Chrysler Corporation
C. J. Bock	Yellow Truck & Coach Manufacturing Company
W. L. Norris	Hudson Motor Car Company
R. F. Weber	International Harvester Company
E. D. McLean	Oldsmobile Motor Division, General Motors Corporation
A. E. Leach	Pontiac Motor Division, General Motors Corporation
K. A. Moore, Secretary	

## Export Committee

B. C. Budd, Chairman	Packard Motors Export Corporation
C. B. Thomas, Vice-Chairman	Export Division, Chrysler Corporation
R. J. Archer	Willys-Overland Motors, Inc.
Allen C. Germann	Hudson Motor Car Company
R. A. Hutchinson	The Studebaker Export Corporation
Edward C. Riley	Overseas Operations, General Motors Corporation
H. M. Salisbury	Nash-Kelvinator Corporation
G. C. Hoyt	International Harvester Export Company
Carl M. Wynne	Diamond T Motor Car Company
Charles R. Weaver, Secretary	

## Ocean Rate Committee

David J. Elmore, Chairman	The Studebaker Corporation
F. A. Allen	Hudson Motor Car Company
T. J. Gilsenan	General Motors Corporation
L. W. Krass	Chrysler Corporation
W. J. Reagan	Nash-Kelvinator Corporation
G. D. Smith	International Harvester Company

## Field Relations Committee

Carlos J. Jolly, Chairman	General Motors Corporation
W. H. Brearley	The Autocar Company
David C. Fenner	Mack Brothers Motor Car Company
R. P. Fohey	Chrysler Corporation
Milton Tibbetts	Packard Motor Car Company

## Highway Committee

Paul G. Hoffman, Chairman	The Studebaker Corporation
A. Edward Barit	Hudson Motor Car Company
Robert F. Black	The White Motor Company
Joseph E. Fields	Chrysler Corporation
John W. Gibbons, Secretary	

\* Chrysler Corporation.

# Organization of Automobile Manufacturers Association

## Insurance Committee

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A. C. Anderson	General Motors Corporation
R. P. Fohey	Chrysler Corporation
Andrew Hood	Hudson Motor Car Company
A. G. Rumpf	The Studebaker Corporation
George C. Arvedson, Secretary	

## Manufacturers Committee

C. E. Wilson, Chairman	General Motors Corporation
W. F. Armstrong	Nash-Kelvinator Corporation
G. T. Christopher	Packard Motor Car Company
E. F. Fisher	Fisher Body Division, General Motors Corporation
F. T. MacRae, Jr.	The White Motor Company
A. W. Secord	International Harvester Company
R. E. Stone	Graham-Paige Motors Corporation
I. B. Swegles	Hudson Motor Car Company
H. L. Weckler	Chrysler Corporation
William J. Cronin, Secretary	

## Motor Truck Committee

R. F. Black, Chairman	The White Motor Company
I. B. Babcock	Yellow Truck & Coach Manufacturing Company
E. J. Bush	Diamond T Motor Car Company
L. D. Cosart	Dodge Brothers Corporation*
D. C. Fenner	Mack Brothers Motor Car Company
W. E. Fish	Chevrolet Motor Division, General Motors Corporation
T. R. Lippard	Federal Motor Truck Company
P. V. Moulder	International Harvester Company
R. P. Page, Jr.	The Autocar Company
Arthur C. Butler, Secretary	

## Patents Committee

H. S. Vance, Chairman	The Studebaker Corporation
J. King Harness	Chrysler Corporation
James McEvoy	General Motors Corporation
Paul Pippel	International Harvester Company
Milton Tibbetts	Packard Motor Car Company
George C. Arvedson, Secretary	

## Public Relations Committee

Paul W. Garrett, Chairman	General Motors Corporation
Dale Cox	International Harvester Company
Paul G. Hoffman	The Studebaker Corporation
Thomas J. Ross	Representing Chrysler Corporation
Clyde M. Vandeburg	Packard Motor Car Company
James Cope, Secretary	
* Chrysler Corporation.	

## Organization of Automobile Manufacturers Association

### Sales Managers Committee

R. H. Grant, Chairman	General Motors Corporation
William A. Brees	Nash-Kelvinator Corporation
A. Van Der Zee	Chrysler Corporation
George D. Keller	The Studebaker Corporation
W. M. Packer	Packard Motor Car Company
George H. Pratt	Hudson Motor Car Company
J. W. Dineen, Secretary	

### Show Committee

Byron C. Foy, Chairman	DeSoto Motor Corporation*
R. H. Grant	General Motors Corporation
Paul G. Hoffman	The Studebaker Corporation
Alfred Reeves, Show Manager	

### Taxation Committee

A. E. Barit, Chairman	Hudson Motor Car Company
Walter P. Chrysler	Chrysler Corporation
Alvan Macauley	Packard Motor Car Company
Charles W. Nash	Nash-Kelvinator Corporation
Robert P. Page, Jr.	The Autocar Company
Alfred P. Sloan, Jr.	General Motors Corporation

### Traffic Committee

F. A. Allen, Chairman	Hudson Motor Car Company
N. J. Brennan	Plymouth Motor Corporation*
H. J. Connelly	DeSoto Motor Corporation*
J. R. Cooper	The White Motor Corporation
S. L. Harter	Mack Brothers Motor Car Company
N. D. Hoke	Chrysler Corporation
E. R. Isbell	Packard Motor Car Company
J. Earl Lind	Yellow Truck & Coach Manufacturing Company
T. J. Maloney	International Harvester Company
E. B. Rogers	Pontiac Motor Division, General Motors Corporation
C. R. Scharff	Chevrolet Motor Division, General Motors Corporation
C. Clark Smith	Buick Motor Division, General Motors Corporation
E. E. Swartz	Nash-Kelvinator Corporation
E. J. Tiedeman	Cadillac Motor Division, General Motors Corporation
R. C. VanRiper	Federal Motor Truck Company
G. E. Welch	The Studebaker Corporation
D. C. Whitmore	Oldsmobile Motor Division, General Motors Corporation
H. D. Wright	Dodge Brothers Corporation*
Kenneth A. Moore, Department Manager	

### Representative on National Industrial Conference Board

James D. Mooney	General Motors Corporation
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### Representatives in American Standards Association

Carl Breer	Chrysler Corporation
David C. Fenner	Mack Brothers Motor Car Company
Robert P. Page, Jr.	The Autocar Company

### Representatives on National Highway Users Conference

Alfred P. Sloan, Jr.	General Motors Corporation
R. F. Black	The White Company
Pyke Johnson	Executive Vice-Pres. A. M. A.

### Representative on International Chamber of Commerce

James D. Mooney	General Motors Corporation
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\* Chrysler Corporation



# Associations of the Automobile Industry

## Automobile Manufacturers Association, Inc.

**OFFICES:** New Center Building, Detroit, Mich.; 366 Madison Avenue, New York, N. Y., and Transportation Building, Washington, D. C.

**PRESIDENT:** Alvan Macauley, Chairman, Packard Motor Car Company.

**EXECUTIVE VICE PRES.:** Pyke Johnson.

**ADVISORY VICE PRES.:** Alfred Reeves.

The Automobile Manufacturers Association, which is the organization through which the motor vehicle manufacturers of the United States cooperate on matters of common interest, was organized in 1913 under the name of the National Automobile Chamber of Commerce (name changed to present one in 1934). The Association is the successor of the National Association of Automobile Manufacturers, the Automobile Board of Trade and the Association of Licensed Automobile Manufacturers.

**OBJECT:** To represent the manufacturers of motor vehicles in all matters where cooperative activity is proper, efficient and economical and to serve as the clearing house for research and information on all subjects relating to highway transportation.

The scope of the Association's work is indicated by the following list of some of its current activities.

### ACTIVITIES:

Administers the Cross-Licensing Agreements program under which members have pooled 1000 patents for use by other members without payment of royalty. This activity was designated in the 1930 American Trade Association Executives award competition as the most outstanding service performed by any trade association.

Through a comprehensive Employment Stabilization program, is seeking to reduce

seasonal fluctuations in the industry's operations, thus making possible more regular and continuous employment with greater annual earnings for workers.

Conducts researches on all subjects relating to the manufacture, sale and operation of motor vehicles including: markets; factory employment; legislation; safety; highway construction and finance; foreign trade; commercial highway transportation; taxation; rail, highway and ocean freight traffic; and patents.

Manages the National Automobile Show in New York.

Publishes "Automobile Facts and Figures," "Motor Truck Facts," "Automobile Facts" (monthly publication), and other special literature dealing with various phases of highway transportation.

Maintains the most complete automotive library in existence for use of members.

Studies rail and steamship transportation rates and service and seeks to develop maximum efficiency and economy in the movement of automotive freight.

Aids in promoting sound and equitable legislative principles relating to highway transportation.

Encourages the development of highway facilities throughout the world on a sound economic basis.

Maintains regional information offices in New York City and Washington, D. C.

Members of the Association classified according to numbers of makes of vehicles produced are grouped as follows: passenger cars, 19; motor trucks, 20; taxicabs, 2; buses, 8; special vehicles such as fire apparatus, ambulances and funeral cars, 6.

Continued on next page

## Associations of the Automobile Industry—Continued

### American Automobile Association

National Headquarters: Pennsylvania Avenue at 17th Street, N. W., Washington, D. C.

President: Thos. P. Henry, 41 Burroughs Avenue, Detroit, Mich.

General Manager: Russell E. Singer.

The world's largest motor federation—composed of 750 motor clubs and branches and 1,000,000 members. It is a national civic body, operating without personal profit and officered by responsible business and professional men.

Objects: Its objects, briefly stated, are:

To unite in one body all the automobile clubs and individual motorists in the country.

To secure reasonable and just legislation and to aid in proper enforcement of automobile laws and ordinances.

To secure the construction and maintenance of a system of highways adequate to the needs of motor transport.

To encourage travel by automobile, bus, steamship, rail and air, and to secure, prepare, and disseminate information relative thereto.

To support sportsmanlike contests and other movements that will advance motoring interests.

To develop service to motorists through clubs.

To promote highway safety by motorists and pedestrians, and to develop it among children through safety lessons, school boy patrols, and driver training.

To facilitate touring by Americans in foreign countries, furnish customs papers, driving licenses and necessary documents.

### American Finance Conference

Offices: 1730-34 Burnham Bldg., 160 North LaSalle St., Chicago, Ill.

President: J. Frank Hudson, 404 City Bank Bldg., Kansas City, Mo.

Chairman, Executive Committee: E. M. Morris, Associates Bldg., South Bend, Ind.

Executive Vice-President: Fred V. Chew, 160 North LaSalle St., Chicago, Ill.

A national trade association representing 390 automobile finance companies operating 921 offices in 46 states. Purpose is to promote the betterment of the business of its members by coordinating its forces for educational, legislative, defensive or other purposes, by aiding and cooperating with any movement beneficial to the automobile financing business.

### American Motorists Association

Administrative Offices: 1643 Connecticut Avenue, N. W., Washington, D. C.

President: J. Borton Weeks, 260 North Broad St., Philadelphia, Pa.

General Manager: Thomas J. Keefe, 1643 Connecticut Avenue, N. W., Washington, D. C.

A non-profit service organization. Membership over 300,000.

Objects are to aid in the organization and maintenance of automobile associations and clubs to promote the welfare of motorists; to compile and distribute information on touring, roads and laws; to promote good roads, safety on the highway, in short, any and all activities in the interest of motorists.

### American Trucking Associations, Inc.

General Offices: 1013 16th St., N. W., Washington, D. C.

President: Ted V. Rodgers.

Manager: John V. Lawrence.

The American Trucking Association, Inc., organized in Washington in September, 1933, is composed of 50 regional, state and local motor truck associations, representing throughout the country, ownership, by all types of operators, in excess of 500,000 trucks. It is a federation of associations, operating without profit and officered by truck operators for the purpose of promoting the best interests of the Trucking Industry.

It is the recognized national spokesman for the Trucking Industry and contacts regularly all Federal departments in which arise matters pertaining to trucking and other forms of transportation.

### Automotive Electric Association

General Offices: 800 Michigan Theatre Building, Detroit, Mich.

President: F. B. Willis, Bendix Products Division, South Bend, Ind.

Executive Secretary: A. R. Sandt, 800 Michigan Theatre Building, Detroit, Mich.

An international association of manufacturers, distributors and authorized service stations organized to safeguard and promote the welfare of specialized service in the automotive industry.

### Automotive Parts and Equipment Manufacturers, Incorporated

General Offices: 800 Michigan Theatre Building, Detroit, Mich.

President: C. C. Carlton, Motor Wheel Corporation, Lansing, Mich.

General Manager: Frank Rising, 800 Michigan Theatre Building, Detroit, Mich.

A national association of manufacturers of automotive parts and equipment. Has six divisions: Original Equipment, Replacement Parts, Accessories, Shop Equipment, Service Tools, and Electrical Products.

Maintains statistical and legal departments and engages in all activities for the promotion and protection of the best interests of industry, through cooperation among the members and otherwise.

### Automotive Safety Foundation, Inc.

Headquarters: Tower Building, Washington, D. C.

President: Paul G. Hoffman, President, The Studebaker Corporation.

Vice-Presidents: C. C. Carlton, President, Automotive Parts & Equipment Manufacturers; F. B. Davis, Jr., President, U. S. Rubber Co.; A. O. Dietz, President, Commercial Investment Trust.

Secretary-Treasurer: Byron C. Foy, President, De Soto Motor Corporation.

Assistant Treasurer: Pyke Johnson, Executive Vice-President, Automobile Manufacturers Association.

Director: Norman Damon.

Purpose: To encourage safe and efficient use of streets and highways; stimulate research into causes of highway accidents and disseminate information on safe use of motor vehicles, effective methods of preventing accidents, means of relieving congestion and facilitating traffic with safety.

## Associations of the Automobile Industry—Continued

### Automotive Trade Association Managers

General Offices: 307 N. Michigan Ave., Chicago, Ill.

President: John E. Raine.

Vice-President: Ralph Ebbert.

Secretary-Treasurer: Samuel B. Shapiro, 307 N. Michigan Ave., Chicago, Ill.

A National Association composed of managers of state and local automobile dealer associations, and of automobile shows sponsored by these local organizations.

### Motor and Equipment Manufacturers Association

Executive Headquarters: Fisk Building, 250 West 57th St., New York.

President: D. S. Briabin, Vice-President, Columbus-McKinnon Chain Corp., Tonawanda, N. Y.

General Manager: Albert H. Eichholz, Fisk Building, New York, N. Y.

National organization, functioning since 1904, representing interests of manufacturers of original equipment, replacement parts, accessories, shop equipment, service tools, and chemicals for the automobile, automotive, aircraft and marine fields. Maintains credit, export, sales development, trade and national shows, legislation and group activities departments.

### Motor and Equipment Wholesalers Association

Executive Headquarters: Jackson-Franklin Building, 309 W. Jackson Blvd., Chicago, Ill.

President: F. G. Stewart, Standard Automotive Supply Co., Washington, D. C.

General Manager: B. W. Ruark, 309 W. Jackson Blvd., Chicago, Ill.

National organization representing interests of automotive jobbers, distributing merchandise generally as follows: Parts, equipment, accessories, and supplies in the automotive, aircraft and marine lines.

Maintains an information bureau for members and disseminates information pertinent to operations of the automotive jobbing industry.

Conducts Collection Service, Adjustment Bureau, Merchandise Exchange Department, and Interchange of Members' Experiences Department. Also conducts margin check and manual of simplified presentations' services.

### National Automobile Dealers Association

General Offices: 154 Bagley Ave., Detroit, Mich.

President: Stanley H. Horner, Washington, D. C.

Manager: W. E. Blanchard, Detroit, Mich.

Treasurer: D. E. Castles, St. Louis, Mo.

Secretary: J. Schiott, Bridgeport, Conn.

Object is promotion of automobile dealer business, constructive publicity on dealer aims, maintenance of high merchandising standards, research

on selling opportunities of the business, study of markets and dissemination of facts concerning the same, opposition to harmful legislation, support of good legislation, promotion of good roads and furthering highway safety.

### National Association of Independent Tire Dealers, Inc.

Headquarters: 250 West 57th St., New York, N. Y.

President: Frank L. Hawkins, Ninth and Denny Way, Seattle, Wash.

Secretary-General Manager: George J. Burger, 250 West 57th St., New York, N. Y.

The Association's membership comprises exclusively independent tire dealers in forty-eight states and the District of Columbia.

The objective of the Association is to promote fair and more equitable trade practices in the tire industry. It is the definite opinion of the Association that the independent tire dealer-merchants will serve the public and industry in a more economical and efficient way than any other type of distribution in the tire industry. Therefore, every effort of the Association is used to protect the future of the independent tire dealer-merchant, and still at the same time prefer no special privileges for the inefficient type of merchant.

### National Association of Sales Finance Companies

General Offices: 203 No. Wabash Ave., Chicago, Ill.

President: Clarence L. Landen, Omaha, Neb.

Secretary: Milan V. Ayres.

A national organization representing automotive financing and insuring interests along the following lines: Advocates sound credit terms. Defends installment selling. Opposes vicious state and national legislation and promotes desirable legislation. Distributes valuable data in the shape of educational, legal, statistical, and trade bulletins and briefs. Secures material reduction in cost of essential services used by members. Arranges for interchange of service between members in collection and credit work and location of seized and embezzled motor vehicles.

### National Association of Motor Bus Operators

President: A. M. Hill, President, Atlantic Greyhound Corp., 1100 Kanawha Valley Bldg., Charleston, W. Va.

Vice-President: E. W. Wakelee, President, Public Service Corp. of New Jersey, 80 Park Place, Newark, N. J.

Secretary-Manager: A. W. Koehler, 831 Tower Building, Washington, D. C.

All activities that promote the welfare and prosperity of motor bus operators and of the bus industry as a whole are within the scope of the Association's program. These include national, state and municipal legislation, important litigation, the collection and dissemination of bus operating cost and tax data, and the distribution to the public of facts on the economy and convenience of bus travel.

## Associations of the Automobile Industry—Continued

### National Association of Taxicab Owners

Headquarters: 800 North Dearborn St., Chicago, Ill.

President: Harry C. Davis, Washington, D. C.

Secretary: J. G. Williams, Chicago, Ill.

Purposes: To afford our members a medium of cooperation.

To collect and disseminate information that promotes the economical conduct of the taxicab business.

### National Council of Private Motor Truck Owners, Inc.

Headquarters: National Press Building, Washington, D. C.

President: Wm. H. Ott, Kraft-Phenix Cheese Corporation, Chicago, Ill.

Vice-Presidents: Fred Brencman, The National Grange, Washington, D. C.; J. W. Sinclair, California Oil & Gas Association, Los Angeles, Calif.; William A. Quinlan, American Bakers Association, Chicago, Ill.

Treasurer: Robert C. Hibben, International Association of Ice Cream Manufacturers, Washington, D. C.

Managing Director: Leon F. Banigan, National Press Building, Washington, D. C.

A national organization incorporated as a non-profit association under the laws of the State of New York, devoted to the safe and economic use of the 3,600,000 motor trucks owned and operated by agriculture and industry. Its membership comprises firms owning one or more trucks, as well as national and state associations that represent them.

### National Highway Users Conference

Headquarters: National Press Building, Washington, D. C.

Chairman: Alfred P. Sloan, Jr., Chairman of the Board, General Motors Corporation, New York, N. Y.

Vice-Chairman: Thomas P. Henry, President, American Automobile Association.

Secretary-Treasurer: L. J. Taber, Master, The National Grange.

Director: Chester H. Gray, National Press Building, Washington, D. C.

Encourages the development of equitable policies of taxation for the use of public highways and endeavors to prevent imposition of unjust burdens upon highway traffic.

Serves as a clearing house for information on proposed national, state and municipal legislation affecting motor vehicle taxation and regulation and highway construction.

### National Standard Parts Association

General Offices: 1420 United Artists Building, Detroit, Mich.

President: V. C. Anderson, Motor & Axle Parts Service, Inc., Chicago, Ill.

Executive Vice-President: E. P. Chalfant, 1420 United Artists Building, Detroit, Mich.

Membership comprises corporations, firms or persons engaged in manufacturing and/or jobbing standard brands of automotive service parts, materials, shop tools and equipment.

Objects: The objects of the Association are to promote an enlarged acquaintance and a more friendly intercourse among its members and in all reasonable, lawful and proper ways to promote the best interests of the automotive service parts trade.

### National Wheel and Rim Association

515 Hunter Ave., Dayton, Ohio.

President: H. M. Young, Borbein Young & Co., St. Louis, Mo.

Secretary and General Manager: E. S. Ingham, 515 Hunter Ave., Dayton, Ohio.

Active membership consists of firms engaged in the wholesale distribution of wheels and allied products; associate membership, the manufacturers of wheels for original equipment who sell replacement materials through distributors.

Objects: To promote the general welfare of the industry; exchange information among members; publish catalogs and sales promotion material; and encourage close friendly relations among the members by means of meetings at regular intervals and bulletin service between meetings.

### The Rubber Manufacturers Association, Incorporated

General Offices: 444 Madison Ave., New York City.

Chairman of the Board: A. F. Townsend, Raybestos-Manhattan, Inc.

President and General Manager: A. L. Viles.

Secretary: R. H. Goebel.

A national trade organization embracing rubber manufacturers of the United States.

Its membership consists of 100 firms, and its object is to promote in all lawful ways the commercial interests of its members, and secure the advantages to be obtained through mutual co-operation, also to stimulate social intercourse among those connected with the rubber industry and commerce and in general for the promotion of the welfare of the rubber industry.

### Society of Automotive Engineers, Inc.

General Offices: 29 West 39th St., New York City.

President: Arthur Nutt, Paterson, N. J.

Secretary and General Manager: John A. C. Warner.

Object of the Society is to promote the arts, sciences, standards, and engineering practices connected with the design, construction and utilization of automotive apparatus, all forms of self-propelled or mechanically propelled mediums for the transportation of passengers or freight, and internal combustion prime-movers. Publications are: Transactions (annual); S. A. E. Membership Roster (annual); The S. A. E. Journal (monthly); and S. A. E. Handbook, Standards and Recommended Practices (published annually).

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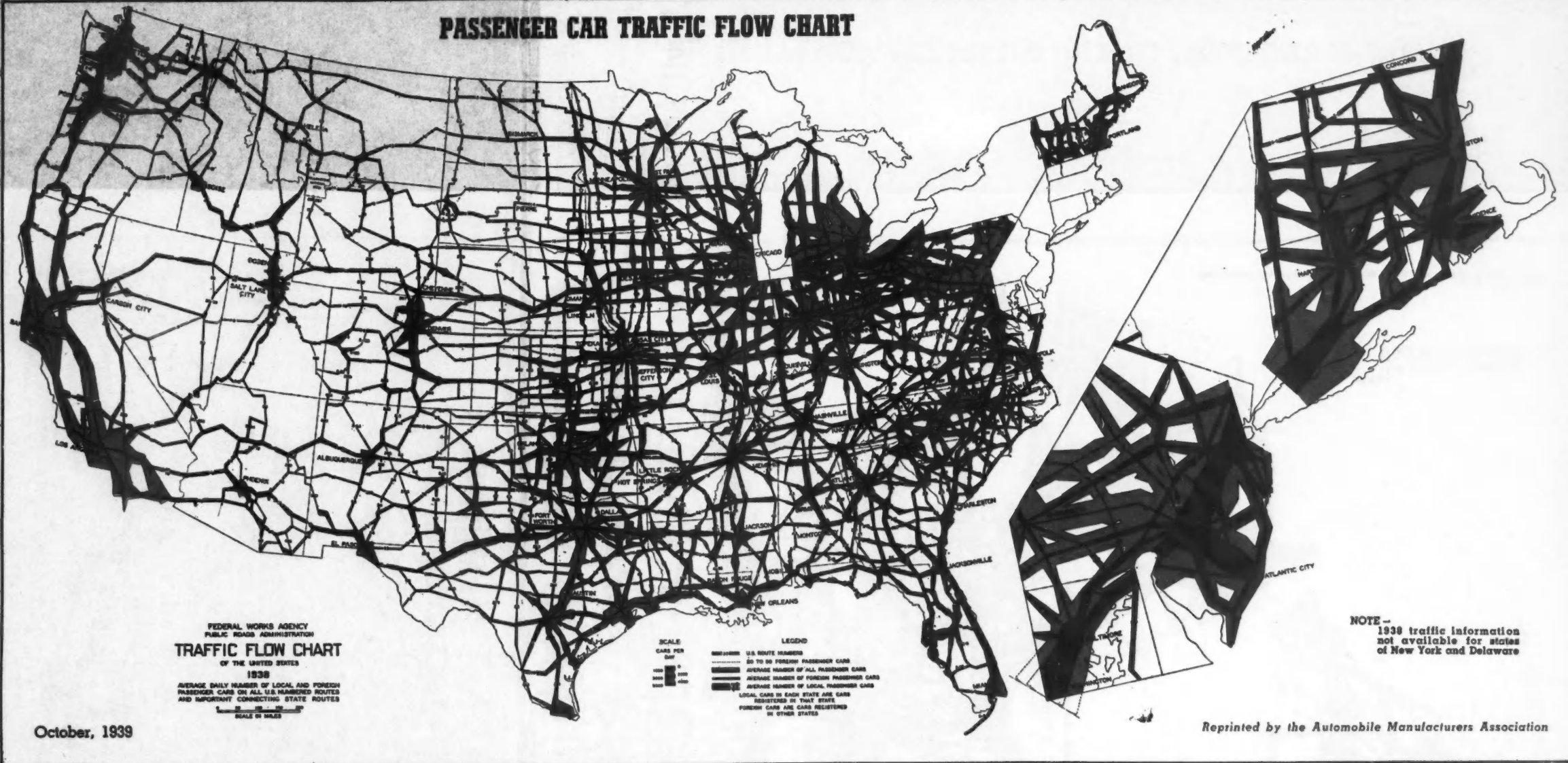
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## PASSENGER CAR TRAFFIC FLOW CHART



October, 1939

Shown here are traffic flow charts for major highways of the United States as prepared by the U. S. Public Roads Administration from planning surveys conducted by highway departments of 46 states. The chart above indicates the comparative volumes of passenger car traffic, with that part which is local in character shown in the shaded areas and the "foreign" traffic in the solid portion forming the center of each roadway.

Motor truck traffic volumes for the same network of highways appear in the map below. Due to the concentrated volumes of traffic registered along the eastern seaboard, the section shown separately at the right of each map was enlarged four times to scale. Travel on the primary highways in 1939 was estimated at 162,402,000,000 vehicle-miles, which was 56.5 per cent of the total vehicle mileage for all roads and streets in the nation.



## LOCATION OF TENTATIVELY SELECTED INTER-REGIONAL HIGHWAY SYSTEM

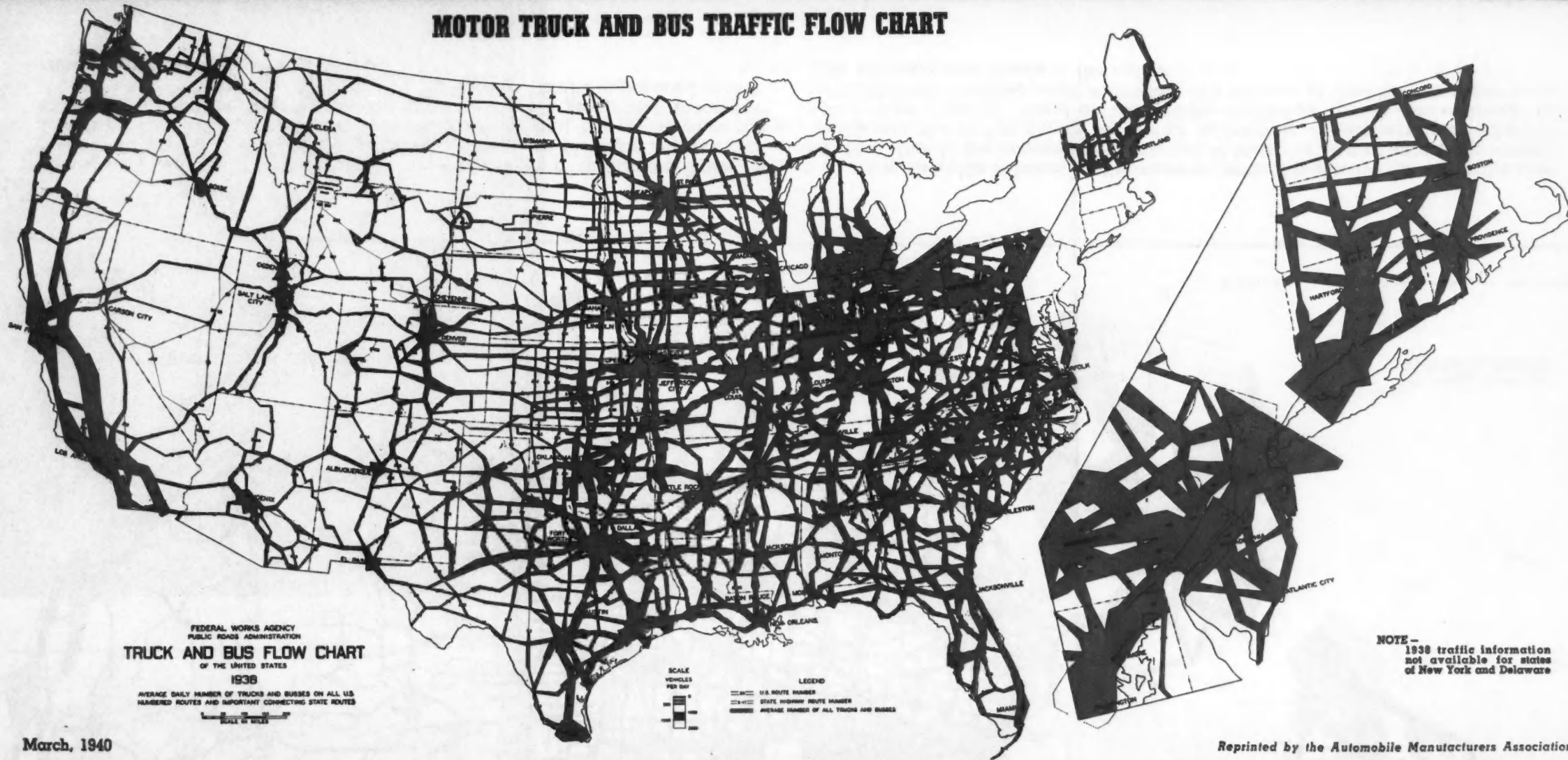


Reprinted by the Automobile Manufacturers Association

The map above shows the proposed inter-regional highway system, evolved from facts developed by the states through their highway planning studies. Below appears the so-called "Pershing Map", showing the "strategic highway system" of the United States from a military viewpoint. First printed in

1922, this map was revised in 1935 and after further revisions was approved late in 1939 by the Chief of Staff, U. S. Army, under the title "War Department Special Highway Map". It includes besides major highways certain "access" roads to military bases, training camps and similar institutions.

# MOTOR TRUCK AND BUS TRAFFIC FLOW CHART



March, 1940

Reprinted by the Automobile Manufacturers Association

# **DIAGRAM OF STRATEGIC MILITARY ROUTES**



January, 1940

Reprinted by the Automobile Manufacturers Association